MZ-NH700/NHF800

SERVICE MANUAL

Ver 1.1 2004.09



Canadian Model AEP Model UK Model E Model Australian Model MZ-NH700/NHF800 Chinese Model Tourist Model

US Model MZ-NHF800

Photo: MZ-NHF800

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Model Name Using Similar Mechanism	NEW
MD Mechanism Type	MT-MZNH900-181
Optical Pick-up Name	ABX-U

MD recorder

Audio playing system

MiniDisc digital audio system Laser diode properties

Material: GaAlAs

Wavelength: λ = 790 nm

Emission duration: continuous Laser output: less than 44.6 µW

(This output is the value measured at a distance of 200 mm from the lens surface on the optical pick-up block with 7 mm aperture.)

Recording and playback time When using HMD1G (1GB disc):

Maximum 34 hours in Hi-LP stereo

When using MDW-80 in Hi-MD mode: Maximum 10 hours and 10 min. in Hi-LP stereo

When using MDW-80 in MD mode:

Maximum 160 min. in monaural Maximum 320 min. in LP4 stereo

Revolutions 350 rpm to 3,000 rpm (CLV)

Error correction

LDC (Long Distance Code)/BIS (Burst Indicator Subcode) ACIRC (Advanced Cross Interleave Reed Solomon Code)

Sampling frequency

Sampling rate converter Input: 32 kHz/44.1 kHz/48 kHz

Coding

ATRAC3plus (Adaptive TRansform Acoustic Coding 3 plus) MD:

ATRAC ATRAC3 — LP2/LP4

Modulation system

1-7RLL (Run Length Limited)/PRMI (Partial Response Maximum Likelihood)

EFM (Eight to Fourteen Modulation)

Frequency response $20 \text{ to } 20,\!000 \text{ Hz} \pm 3 \text{ dB}$

Inputs

MIC: stereo mini-jack (minimum input level 0.13 mV)

LINE IN (OPT)

stereo mini-jack for analog input (minimum input level 49 mV) optical (digital) mini-jack for optical (digital) input

SPECIFICATIONS

Outputs

Ω²⁾: stereo mini-iack (dedicated remote control iack)

Maximum output (DC)

eadphones: $\begin{array}{l} 5 \text{ mW} + 5 \text{ mW} \ (24 \ \Omega) \ (USA \ model) \\ 3 \text{ mW} + 3 \text{ mW} \ (16 \ \Omega) \ (European \ models) \\ 5 \text{ mW} + 5 \text{ mW} \ (16 \ \Omega) \ (Other \ models) \\ \end{array}$

Radio (MZ-NHF800)

Frequency range

USA model:

SA model: FM: 87.5 - 108.0 MHz AM: 530 - 1,710 kHz (10 kHz step)

531 - 1,710 kHz (9 kHz step)

TV: 2 - 13 CH WEATHER: 1 - 7 CH

Canadian model: FM: 87.5 - 108.0 MHz AM: 530 - 1,710 kHz (10 kHz step)

AM: 530 - 1,710 kHz (10 kHz step)
531 - 1,710 kHz (9 kHz step)
Models for Europe and China:
FM: 87.5 - 108.0 MHz
AM: 531 - 1,602 kHz
Other models:
FM: 87.5 - 108.0 MHz

AM: 530 - 1.710 kHz

Antenna

FM/TV/WEATHER: Headphones/earphones cord antenna

Built-in ferrite bar antenna

Power requirements Sony AC Power Adaptor connected at the DC

IN 3V Jack: 120 V AC, 60 Hz (Models for USA, Canada, Mexico, and Taiwan)

230 V AC, 50/60 Hz (Models for continental Europe and Chile) 240 V AC, 50 Hz (Model for Australia) 230 V AC, 50 Hz (Models for U.K. and Hong Kong)

115 V/230 V AC, 50/60 Hz (Other models in MZ-NHF800) 100 - 240 V AC, 50/60 Hz (Other models in MZ-NH700)

The recorder:

Nickel metal hydride rechargeable battery NH-7WMAA 1.2V 700 mAh (MIN) Ni-MH

LR6 (size AA) alkaline battery

AC power adaptor DC 3V
Operating temperature

+5°C (+41°F) to +35°C (+95°F)

Dimensions

Approx. 81.0 × 29.2 × 78.9 mm (w/h/d) $1/4 \times 1^{13/16} \times 3^{1/8}$ in.) (excluding projecting parts and controls)

Mass

Approx. 103 g (3.7 oz) (the recorder only)
Approx. 122 g (4.4 oz) (including the rechargeable battery)

1)The LINE IN (OPT) jack is used to connect either a digital (optical) cable or a line (analog) cable.

2)Measured in accordance with JEIAT.

Continued on next page –

PORTABLE MINIDISC RECEIVER



9-879-056-02

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Battery life

When recording continuously

Hi-MD mode (When using a 1GB Hi-MD disc)

(Unit: approx.hours)(JEITA3)

Batteries	Linear PCM	Hi-SP	Hi-LP
NH-7WMAA	3	4.5	5
LR6 ⁵⁾	2.5	3.5	4.5

- 3) Measured in accordance with the JEITA (Japan Electronics and
- Information Technology Industries Association) standard.

 4) When using a 100% fully charged nickel metal hydride rechargeable

- 5) When using a Sony LR6 (size AA)
 "STAMINA" alkaline dry battery (produced in Japan)

Hi-MD mode (When using a 60/74/80-minute standard disc)

	(Unit: ap	prox.hour	s)(JEITA)
Batteries	Linear PCM	Hi-SP	Hi-LP
NH-7WMAA	2.5	4.5	5.5
LR6	5	8	9.5

MD mode

(Unit: approx.hours)(JEHA)			
Batteries	SP Stereo	LP2 Stereo	LP4 Stereo
NH-7WMAA	4.5	6	6.5
LR6	7.5	9.5	11

When playing continuously

Hi-MD mode (When using a 1GB Hi-MD disc)

Batteries	Linear PCM	Hi-SP	Hi-LP
NH-7WMAA	4.5	7.5	9
LR6	11	18.5	21.5

Hi-MD mode (When using a 60/74/80-minute standard disc)

•	(Unit: approx.hours)(JEITA)		
Batteries	Linear PCM	Hi-SP	Hi-LP
NH-7WMAA	4	7.5	9
LR6	9.5	17	20

MD mode

(Unit: approx.hours)(JEITA)			s)(JEITA)
Batteries	SP Stereo	LP2 Stereo	LP4 Stereo
NH-7WMAA	7.5	9	10
LR6	20.5	24	26

When using the radio (MZ-NHF800)

(Unit: approx.hours)(JEITA)

Batteries	FM/AM	TV/Wb (weather) ⁶⁾
NH-7WMAA	7.5	7
LR6	18.5	17

⁶⁾ USA model only

On power sources

• For use in your house: use the AC power adaptor supplied with this recorder. Do not use any other AC power adaptor since it may cause the recorder to malfunction

Polarity of the plug



Supplied accessories

AC power adaptor (1) Remote control (1) Headphones (for USA model) (1) Earphones (except USA model) (1)

Dedicated USB cable (1) NH-7WMAA Nickel metal hydride rechargeable battery (1)

CD-ROM (SonicStage/MD Simple Burner (1)* Battery carrying case (1) Carrying pouch (except USA model)

Optical cable (MZ-NH700) (except Canadian andMexican Models) (1) Clamp filter (2)

*Do not play a CD-ROM on an audio CD player.

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

1.	SERVICING NOTES	4
2.	GENERAL	
	Location of Controls	5
3.	DISASSEMBLY	
3-1.	Disassembly Flow	6
3-2.	Case (Lower) Section	7
3-3.	MAIN Board	7
3-4.	Case (Upper) Section	8
3-5.	Mechanism Deck Section (MT-MZNH900-181), MD Standard Pin	0
2.0		8
3-6. 3-7.	Set Chassis Assy	9
3-7. 3-8.	Gear (BSA), Gear (SB) Op Service Assy	10
3-8. 3-9.		10
3-9.	DC Motor SSM18D/C-NP (Spindle) (M701),	
	DC Motor (Sled) (M702), DC Motor Unit	10
2 10	(Over Write Head Up/Down) (M703)	
	Holder Assy	
3-11.	Position of Ferrite Core	11
4.	TEST MODE	12
5.	ELECTRICAL ADJUSTMENTS	16
6.	DIAGRAMS	
6-1.	Block Diagram –MD SERVO Section –	21
6-2.	Block Diagram –AUDIO Section –	
6-3.	Block Diagram –POWER SUPPLY Section –	
6-4.	Schematic Diagram –MAIN Section (1/9) –	
6-5.	Schematic Diagram –MAIN Section (2/9) –	26
6-6.	Schematic Diagram –MAIN Section (3/9) –	
6-7.	Schematic Diagram –MAIN Section (4/9) –	
6-8.	Schematic Diagram –MAIN Section (5/9) –	29
6-9.	Schematic Diagram –MAIN Section (6/9) –	
6-10.	Schematic Diagram –MAIN Section (7/9) –	
	Schematic Diagram –MAIN Section (8/9) –	
	Schematic Diagram –MAIN Section (9/9) –	
6-13.	Printed Wiring Board –MAIN Section (1/2) –	34
	Printed Wiring Board –MAIN Section (2/2) –	
7.	EXPLODED VIEWS	
7-1.	Case (Lower) Section	47
7-2.	Case (Upper) Section	48
7-3.	Chassis Section	
7-4.	Mechanism Deck Section (MT-MZNH900-181)	
6	FI FCTRICAL PARTS LIST	51

SECTION 1 **SERVICING NOTES**

NOTES ON HANDLING THE OPTICAL PICK-UP **BLOCK OR BASE UNIT**

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the leadfree mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

└└: LEAD FREE MARK

Unleaded solder has the following characteristics.

• Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

Strong viscosity

Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

Providing the required system environment

System requirements

The following system environment is required in order to use the SonicStage/MD Simple Burner software for the MD Walkman.

Computer	IBM PC/AT or Compatible
	CPU: Pentium II 400 MHz or higher (Pentium III 450 MHz or higher is recommended.)
	Hard disk drive space: 200 MB or more (1.5 GB or more is recommended) (The amount space will vary according to Windows version and the number of music files stored on the hard disk.) RAM: 64 MB or more (128 MB or more is recommended)
	Others CD drive (capable of digital playback by WDM) Sound Board USB port (supports USB (previously USB 1.1))
Operating System	Factory installed: Windows XP Media Center Edition 2004/Windows XP Media Center Edition/Windows XP Professional/Windows XP Home Edition/ Windows 2000 Professional/Windows Millennium Edition/Windows 98 Second Edition
Display	High Color (16bit) or higher, 800×600 dots or better (1024 \times 768 dots or better is recommended)
Others	Internet access: for Web registration, EMD services and CDDB Windows Media Player (version 7.0 or higher) installed for playing WMA files

This software is not supported by the following environments:

- OSs other than the indicated above
- Personally constructed PCs or operating systems
- An environment that is an upgrade of the original manufacturer-installed operating system
- Multi-boot environment Multi-monitor environment
- Macintosh

Notes

- We do not ensure trouble-free operation on all computers that satisfy the system requirements.

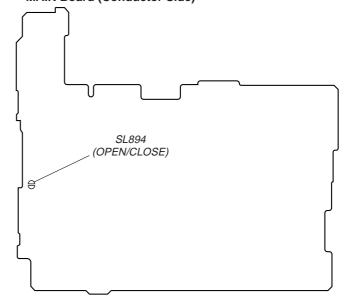
 The NTFS format of Windows XP/Windows 2000 Professional can be used only with the standard
- (factory) settings
- . We do not ensure trouble-free operation of the system suspend, sleep, or hibernation function on all
- For Windows 2000 Professional users, install Service Pack 3 or later version before using the

OPERATION CHECK WHEN THE LID IS OPEN

In making an operation check with the MAIN Board removed from the set, short the SL894 (OPEN/CLOSE) of the MAIN Board with the solder before starting the operation check.

Note: Be sure to remove the solder used for shortcircuit after the repaire completed.

- MAIN Board (Conductor Side) -

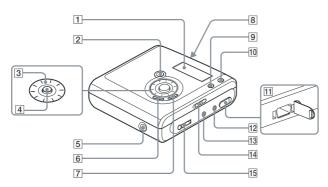


SECTION 2 GENERAL

This section is extracted from instruction manual.

Looking at controls

The recorder



- 1 Display window
- 2 T MARK/REC (+▶) button
- 3 Jog dial



4 5-way control key



Operation	Function
Press ENT 1)	play, enter
Press towards	find the beginning of the previous track, rewind
Press towards	find the beginning of the next track, fast forward
Press towards VOL +1) or VOL	volume

1) There are tactile dots beside the ►ENT and VOL + buttons.

- 5 DC IN 3V jack
- 6 II (pause) button
- $\boxed{\textbf{7}}$ \blacksquare (stop) \bullet CANCEL/CHG button
- 8 OPEN switch
- 9 GROUP button
- 10 •NAVI/ ■MENU button Press lightly to go to the NAVI (navigation) setting mode. Press for 2 seconds or more to go to MENU setting mode.
- 11 🗢 USB cable connecting jack
- 12 LINE IN (OPT) jack
- 13 MIC (PLUG IN POWER) jack There is a tactile dot beside the MIC (PLUG IN POWER) jack.
- 14 HOLD switch Slide the switch in the direction of the arrow to disable the buttons on the recorder. To prevent the buttons from being accidentally operated when you carry the recorder, use this function.
- (headphones/earphones) jack

The headphones/earphones with a remote control (MZ-NHF800)



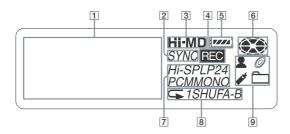
- 6 7 8 9 10 11
- 1 VOL +, buttons Press to adjust the volume.
- 2 Jog lever (►Ⅱ/ENT, I◀◀, ►►) BAND, TUNE –, TUNE +) When using an MiniDisc

Operation	Function
Press ►II/ENT	play, pause, enter
Slide towards	find the beginning of the previous track, rewind
Slide towards	find the beginning of the next track, fast forward

Operation	Function
Press BAND	select a band
Slide towards TUNE –	tune backwards
Press towards TUNE +	tune forward

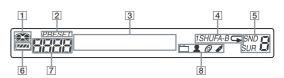
- 3 Display window
- **4** (stop) button
- 5 (group) +, -
- 6 RADIO ON/OFF button Press to turn on or off the radio.
- 7 Clip
- 8 HOLD switch To prevent the buttons from being accidentally operated when you carry the recorder, use this function.
- 9 DISPLAY button
- 11 SOUND button

The display window of the recorder



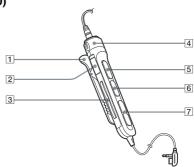
- 1 Character information display Displays the disc and track names, date, error messages, track numbers,
- 2 SYNC (synchro-recording) indication
- 3 Hi-MD/MD indication "Hi-MD" lights up when the operation mode of the recorder is in Hi-MD mode and "MD" lights up when the operation mode is in MD mode.
- 4 REC indication Lights up during recording or file transfers from the computer. When flashing, the recorder is in record standby mode.
- [5] Battery indication Shows the approximate remaining battery power. If the battery is weak, the indication becomes empty and starts flashing.
- 6 Disc indication Shows that the disc is rotating for recording or playing.
- 7 Track mode (PCM, Hi-SP, Hi-LP, SP, LP2, LP4, MONO) indication
- 8 Sub play mode/Repeat play indications
 Shows the selected Sub play mode (single-track play, shuffle play, etc.) or Repeat play.
- 9 Main play mode indications Shows the selected main play mode (group play, bookmark play, etc.).

The display window of the remote control (MZ-NHF800)



- 1 Disc indication
- 2 PRESET indication
- 3 Character information display
- 4 Sub play mode/Repeat play indications
- $\fbox{5}$ SND (sound) and SUR (surround)
- 6 Battery level indication
- 7 Track number/Band/Preset number display
- 8 Main play mode indications

The headphones/earphones with a remote control (MZ-NH700)



- 1 Clip
- 2 HOLD switch To prevent the buttons from being accidentally operated when you carry the recorder, use this function.
- $\boxed{\mathbf{3}} \ \ \Box \ (\text{group}) +, \text{buttons}$
- 4 Volume control (VOL +, -) Turn to adjust the volume
- 5 | (play, pause) button
- **6** (stop) button
- **7 ►►** buttons

Operation	Function
Press ►	find the beginning of the previous track, rewind
Press ►►	find the beginning of the next track, fast forward

SECTION 3 DISASSEMBLY

• This set can be disassembled in the order shown below.

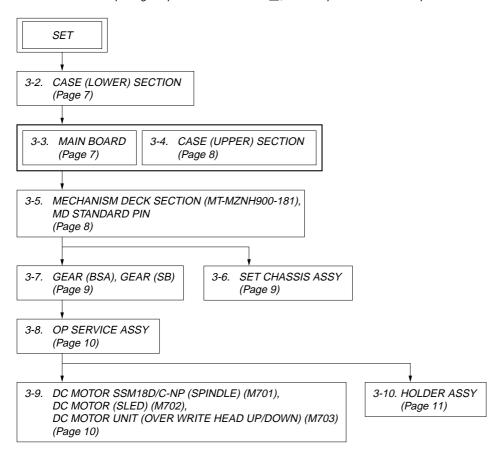
3-11. POSITION OF FERRITE CORE

(Page 11)

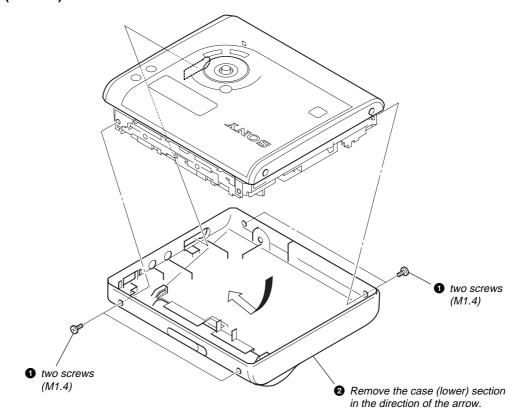
3-1. DISASSEMBLY FLOW

Note 1: The process described in \square can be performed in any order.

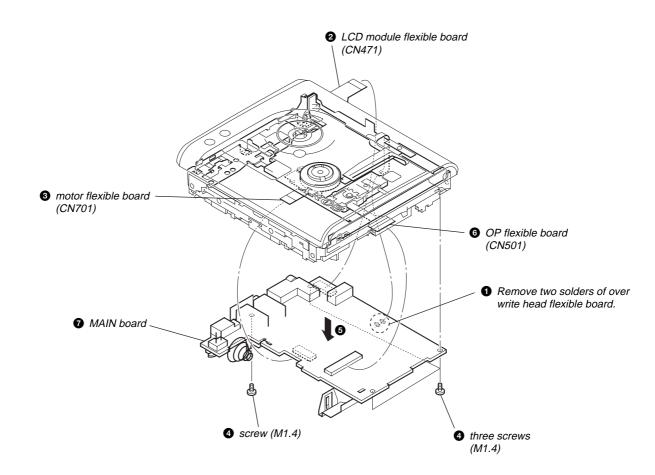
Note 2: Without completing the process described in \square , the next process can not be performed.

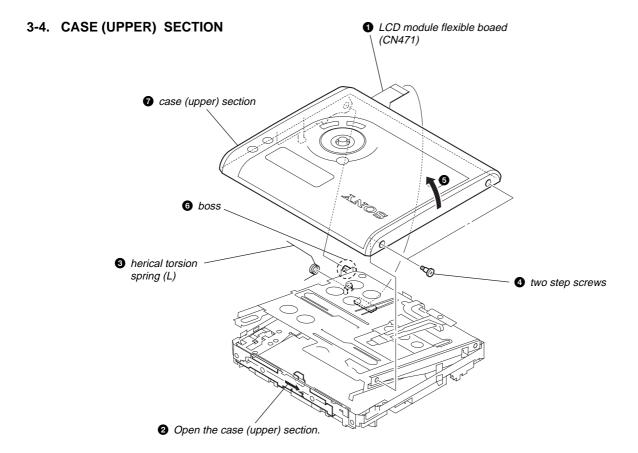


3-2. CASE (LOWER) SECTION

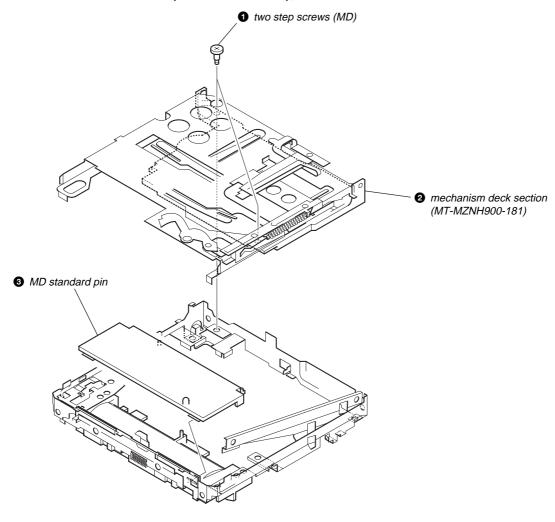


3-3. MAIN BOARD

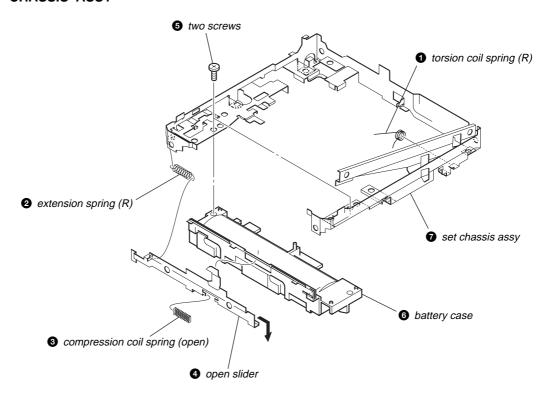




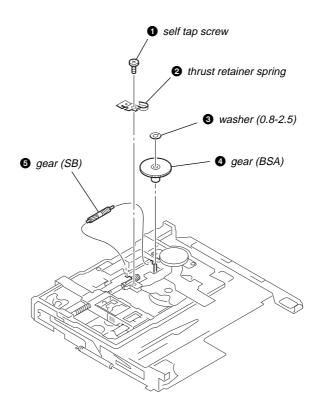
3-5. MECHANISM DECK SECTION (MT-MZNH900-181), MD STANDARD PIN



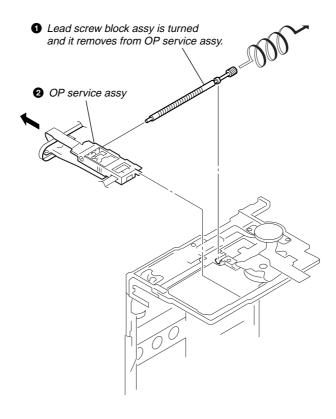
3-6. SET CHASSIS ASSY



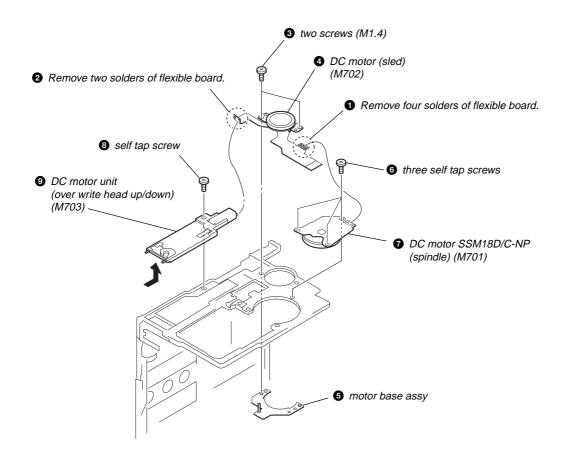
3-7. GEAR (BSA), GEAR (SB)



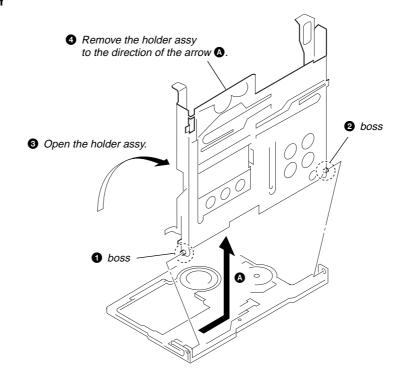
3-8. OP SERVICE ASSY



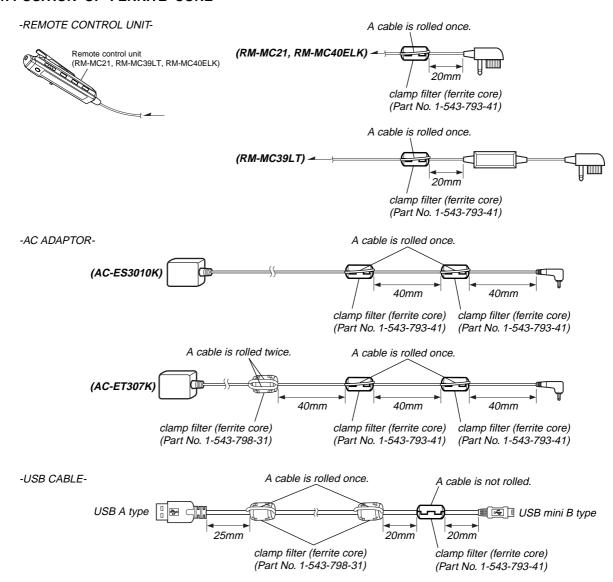
3-9. DC MOTOR SSM18D/C-NP (SPINDLE) (M701), DC MOTOR (SLED) (M702), DC MOTOR UNIT (OVER WRITE HEAD UP/DOWN) (M703)



3-10. HOLDER ASSY



3-11. POSITION OF FERRITE CORE



Ver 1.1

SECTION 4 TEST MODE

OUTLINE

A key having no particular description in the text, indicates a set key.

1. ENTERING THE TEST MODE

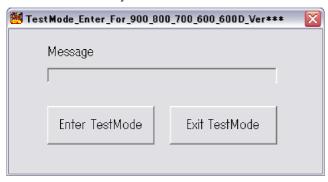
Preparation:

Copy the "TestMode_Enter_For_900_800_700_600_600D_ Ver***.exe" folder of the PC application of the latest version to your PC in advance. (operating system: Windows 2000, Windows XP)

Also, when using this application, the SonicStage Ver. 2.0 or 2.1 is necessary, and install it in your PC in advance.

Procedure:

- 1. If a Simple Burner has run on the PC, finish it (including the one that is resident in the task tray).
- Start the "TestMode_Enter_For_900_800_700_600_600D_ Ver***.exe".
- 3. Insert the fully charged Ni-MH rechargeable battery (NH-7WMAA).
- 4. Open and close the top panel of the main unit to wait until the system reading finished.
- 5. Connect the main unit and PC by USB cable.
- 6. Check by device manager screen from property of "My computer" that the set is recognised to your PC normally.
- 7. Click the Enter TestMode button on the screen of application
- 8. Disconnect the USB cable, when "OK" message is displayed on the application screen.
- 9. Remove the battery.



Screen of the PC application "TestMode_Enter_For_900_800_700_600_600D_Ver***.exe"

("***" is version number)

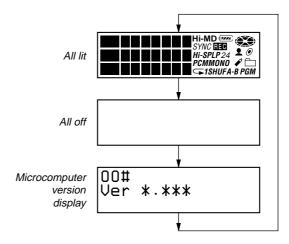
Note: Once the test mode is activated with this application, the test mode is then activated forcibly by only turning on the power.

After the repair completed, be sure to release the test mode by using this application once more.

2. OPERATION IN SETTING THE TEST MODE

- When the test mode becomes active, first the Display Check mode is selected.
- Other mode can be selected from the Display Check mode.
- When the test mode is set, the LCD repeats the following display.

Display check mode:



"00#": Model type 005 (MZ-NH700) 004 (MZ-NHF800)

"*.***": Microcomputer version

• When the **II** key is pressed and hold down, the display at that time is held so that display can be checked.

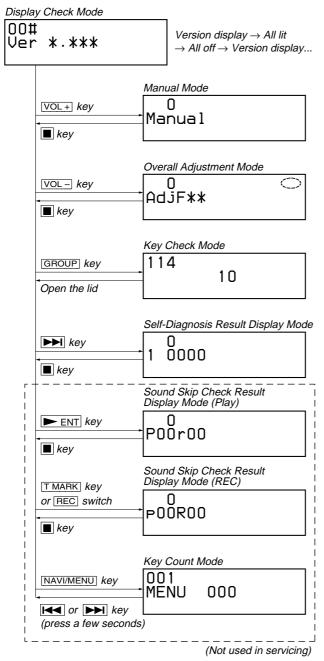
3. RELEASING THE TEST MODE

Procedure:

- 1. If a Simple Burner has run on the PC, finish it (including the one that is resident in the task tray).
- 2. Start the "TestMode_Enter_For_900_800_700_600_600D_ Ver***.exe".
- Insert the fully charged Ni-MH rechargeable battery (NH-10WM)
- Open and close the top panel of the main unit to wait until the system reading finished.
- 5. Connect the main unit and PC by USB cable.
- Check by device manager screen that the set is recognised to your PC normally.
- 7. Click the **Exit TestMode** button on the screen of application
- 8. Disconnect the USB cable, when "OK" message is displayed on the application screen.
- 9. Remove the battery.

4. CONFIGURATION OF THE TEST MODE

Flow of the test mode:

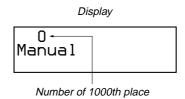


5. MANUAL MODE

This is mode to adjust or check the operation of the set by function.

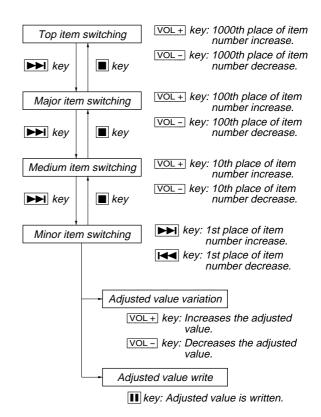
Operation of The Manual Mode

- 1. Enter the test mode (Display Check mode).
- Press the VOL+ key to activate the Manual mode where the LCD displays as shown below.



- 4. Each test item is assigned with a four-digit item number; 1000th place is a top item, 100th place is a major item, 10th place is a medium item, and unit place is a minor item.
 - The values adjusted in the test mode are written to the non-volatile memory (for the items where adjustment was made).
- To quit the Manual mode, press the key and return to the Display Check mode.

Flow of manual mode operation:



6. OVERALL ADJUSTMENT MODE

6-1. Operation of The Overall Adjustment Mode

- 1. Enter the test mode (Display Check mode).
- 2. Press the VOL- key to activate the Overall Adjustment mode where the LCD displays as shown below.

Display



Disc mark:

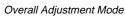
Lit the inner segments: Completed the power supply adjustment.

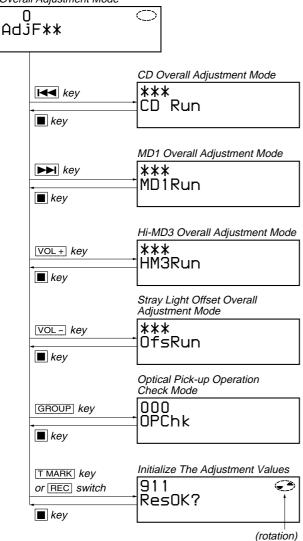
Lit the outer segments: Completed the charge function check.

If "DF" or "FF" is displayed, it mean that completed the servo overall adjustment.

3. To quit the Overall Adjustment mode, press the key and return to the Display Check mode.

Flow of overall adjustment mode:





6-2. Error Message in The Overall Adjustment Mode

In the Overall Adjustment mode, if an error occurred, it displays as following table.

Display	Description
Close!	Dose not close the lid
DfDis!	Unsuitableness disc was inserted
NoChg!	Does not finish the charge function check
NoTmp!	Does not setting the temperature correction value
NotCD!	Does not complete the CD Overall adjustment beforethe
	MD1 Overall adjustment
NotM1!	Does not complete the MD1 Overall adjustment
	before the Hi-MD3 Overall adjustment
NotH3!	Does not complete the Hi-MD3 Overall adjustment
	before the Stray Light Offset Overall adjustment
****NG	Error of item number "****"

7. SELF-DIAGNOSIS RESULT DISPLAY MODE

This set uses the self-diagnostic function system in which if an error occurred during the recording or playing, the mechanism control block and the power supply control block in the microcomputer detect it and record its cause as history in the nonvolatile memory. By checking this history in the test mode, you can analyze a fault and determine its location.

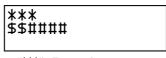
Total recording time is recorded as a guideline of how long the optical pick-up has been used, and by comparing it with the total recording time at the time when an error occurred in the self-diagnosis result display mode, you can determine when the error occurred.

Clear the total recording time, if the optical pick-up was replaced.

7-1. Operation of The Self-Diagnosis Result Display Mode

- 1. Enter the test mode (Display Check mode).
- Press the key to activate the Self-Diagnosis Result Display mode where the LCD displays as shown below.

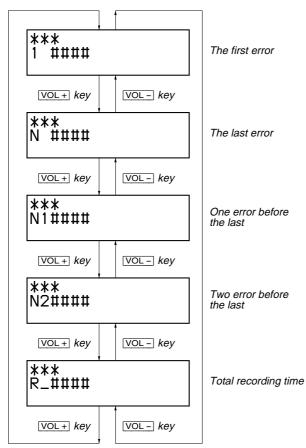
Display



"***": Error code
"\$\$": Error history code
"####": Total recording time

To quit the Self-Diagnosis Result Display mode, press the key and return to the Display Check mode.

Flow of Self-diagnosis Result Display mode operation:



7-2. Error Code of The Self-Diagnosis Result Display Mode

Error code	Description
00	No error
01	Attempt to access an abnormal address
02	High temperature detected
03	Focus error (no change)
04	Abnormal rotation of disc
05	Fault of disc discriminate
06	Error of access loop (no change)
07	Error of access loop (with change)
08	Could not read address
09	Focus error (with change)
12	Could not read data with SYNC
13	TOC address data error
32	Focus error, ABCD offset error
33	Tracking error, offset error
34	Tracking error, X1 tracking error, offset error

7-3. Clear The Total Recording Time

After replacing the optical pick-up, clear the total recording time.

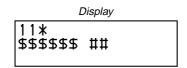
- 1. Enter the test mode (Display Check mode).
- Press the key to activate the Self-Diagnosis Result Display mode.
- Press the VOL- key once to display the total recording time indication.
- 4. Press the III key and display "ClrOK?".
- Press the key again to display "RecT 0" and clear the total recording time.

8. KEY CHECK MODE

This mode is used for key check.

Operation of The Key Check Mode

- 1. Enter the test mode (Display Check mode).
- 2. Press the GROUP key to activate the Key Check mode where the LCD displays as shown below.



"*" : Remote commander (0: with, 4: without)

"\$\$\$\$\$": Pressed key name.

When remote commander key is pressed, display becomes

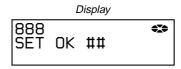
as "r\$\$\$\$".

When the jog dial is turned, it displays "JOG+ X" or "JOG-X" ("X" is number of 1 to 3). If the jog dial is turned four

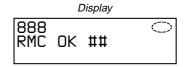
click, it displays "JOG+OK" or "JOG-OK".

"##" : Key voltage of remote commander. (Hexadecimal number)

3. When all keys (*1) check is OK on the main unit, it displays as follows.



When all keys (*1, 2) check is OK on the remote commander, it displays as follows.



- *1) Turn the jog dial four click clockwise and counterclockwise to jog test is OK.
- *2) RADIO ON/OFF key (MZ-NHF800) is not included in this check.
- When all keys check are OK both the main unit and the remote commander, it display backs to the Display Check mode automatically.
- To quit the Key Check mode, open the lid and return to the Display check mode.

SECTION 5 ELECTRICAL ADJUSTMENTS

1. PRECAUTIONS FOR ADJUSTMENT

- Adjustment must be done in the test mode only. After adjusting, release the test mode. A key having no particular description in the text, indicates a set key.
- 2. Use the following tools and measuring instruments.
- Digital voltmeter
- Regulated dc power supply (two sets)
- Thermometer (using the Temperature Correction)
- Laser power meter
- CD adjustment disc TDYS-1 (Part No.: 4-963-646-01)
- MD1/HiMD1 hybrid adjustment disc MDW-74/GA1 (Part No.: 4-229-747-01)
- Hi-MD3 adjustment disc HMD1GSDJ (Part No.: 7-819-098-37) *1
- Remote commander in accessories (with LCD)
- · AC adapter in accessories
- Ni-MH rechargeable battery (NH-7WMAA) in accessories (full charged)
- PC application software for test mode "TestMode_Enter_For_900_800_700_600_600D_Ver***.exe"*2
- USB cable
 - *1) Hi-MD3 adjustment disc (HMD1GSDJ) is consumable. Therefore if it is used 400 times, exchange it for a new.
 - *2) Use the newest version every time. Copy the whole folder of this program to your PC. Operating system: Windows 2000, Windows XP When using this application, the SonicStage Ver. 2.0 or 2.1 is necessary, and install it in your PC in advance.
- 3. Unless specified otherwise, supply DC 1.5 V from battery terminals (CL431: BATT+, CL432: BATT-).

2. ADJUSTMENT SEQUENCE

Adjustment must be done with the following order.

Adjustment order:

- 1. Entering the test mode
- 2. Initialize the adjustment value
- 3. Setting the temperature correction value
- 4. Power supply voltage adjustment
- 5. Charge function check
- 6. Laser power check
- 7. Setting the adjustment values
- 8. Servo Overall adjustment
- 9. Resume clear
- 10. Releasing the test mode

3. ADJUSTMENT OF THE EACH ITEM

3-1. Entering The Test Mode

Refer to the "SECTION 4. TEST MODE".

3-2. Initialize The Adjustment Value

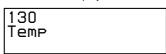
Procedure:

- 1. In the test mode (Display Check mode), press the VOL- key to enter the Overall adjustment mode.
- 2. Press the TMARK key and display "911 ResOK?".
- 3. Press the we key to display "911 Reset!" and initialize the adjustment values.
- 4. Press the key and back to Display Check mode.

3-3. Setting The Temperature Correction Value Procedure:

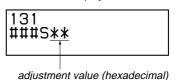
- In the test mode (Display Check mode), press the VOL+ key to enter the Manual mode.
- Press the key twice, and press the VOL+ key twice to display as follows.

Display



Press the key once to select the item number 0131 and display as follows.

Display



- 4. Measure the ambient temperature.
- Adjust with VOL+/VOL- keys so that the adjusted value (hexadecimal value) becomes the ambient temperature. (example: 25 °C = 19h)
- 6. Press the **III** key to write the adjusted value.
- Press the key four times and back to the Display Check mode.

3-4. Power Supply Voltage Adjustment

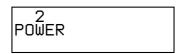
Adjustment must be done with the following order.

3-4-1. Setting

Procedure:

- 1. Enter the test mode (Display Check mode), and make sure that the power supply voltage is 1.2 V.
- 2. Press the VOL+ key to enter the Manual mode.
- 3. Press the VOL+ key twice to display as follows.

Display



4. Press the key once, press the VOL+ key once, and press the key once again to display as follows.

Display

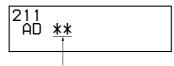


5. Repeat the next procedures (3-4-2. PwrAdj Adjustments), and adjust all contents of "table 3-4-1. PwrAdj Specifications".

3-4-2. PwrAdj adjustments

Repeat the following procedures and adjust all contents of "table 3-4-1. PwrAdj Specifications".

Example Display (Item No. 2211)



adjustment value (hexadecimal)

Procedure:

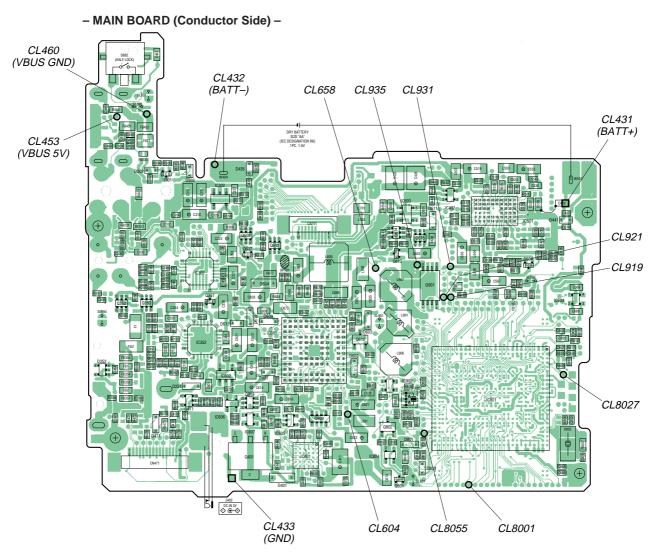
- 1. Connect the digital voltmeter to measuring point (refer to the following table) and ground (CL433).
- 2. Press the key to change the item number.
- 3. Adjust with VOL+/VOL- keys so that the value of digital voltmeter becomes specification value.
- 4. Press the **II** key to write the adjusted value.
- 5. Press the key to select the next item.
- 6. Repeat adjustment from step 1 until item number 2233.

ItemNo.	Display	Specification value	Measuring point
2211	211 AD **	2.05 V + 0.02 V	CL8027
2212	212 AD **	$2.25 \text{ V} \pm 0.01 \text{ V}$	CL8027
2213	213 AD **	1.20 V + 0.01 V	CL8001
2214	214 AD **	$3.10 \text{ V} \pm 0.015 \text{ V}$	CL658
2215	215 AD * *	$3.10 \text{ V} \pm 0.015 \text{ V}$	CL658
2216	216 AD **	$3.02 \text{ V} \pm 0.02 \text{ V}$	CL919
2217	217 AD **	$3.02 \text{ V} \pm 0.02 \text{ V}$	CL919
2218	218 AD **	2.275 V ± 0.01 V	CL921
2219	219 AD * *	$2.480 \text{ V} \pm 0.01 \text{ V}$	CL921
2221	221 AD **	$2.740 \text{ V} \pm 0.01 \text{ V}$	CL921
2222	222 AD **	2.985 V ± 0.01 V	CL921
2223	223 AD **	$2.52 \text{ V} \pm 0.02 \text{ V}$	CL931
2224	224 AD **	$0.89 \text{ V} \pm 0.02 \text{ V}$	CL604
2225	225 AD * *	$1.08 \text{ V} \pm 0.02 \text{ V}$	CL604
2226	226 AD **	$1.52 \text{ V} \pm 0.02 \text{ V}$	CL604
2227	227 AD **	$2.27 \text{ V} \pm 0.02 \text{ V}$	CL604
2228	228 AD **	$2.97 \text{ V} \pm 0.02 \text{ V}$	CL604
2229	229 AD * *	$0.94 \text{ V} \pm 0.02 \text{ V}$	CL604
2231	231 AD **	$1.28 \text{ V} \pm 0.02 \text{ V}$	CL604
2232	232 AD **	$2.57 \text{ V} \pm 0.02 \text{ V}$	CL604
2233	233 AD **	$2.57 \text{ V} \pm 0.02 \text{ V}$	CL604

Note1: "**" is adjustment value (hexadecimal number).
Note2: Ground point of all measuring points is CL433.

Table 3-4-1. PwrAdj Specifications

Adjustment Location:



3-4-3. VBsAdj adjustments

Procedure:

1. In the "3-4-2. PwrAdj Adjustments" completed status, press the ►► key to display as follows.



- Apply the voltage of 5 V to the CL453 (VBUS 5V) and CL460 (VBUS GND).
- 3. Press the key to change the item number to 2241.
- Adjust with VOL+/VOL- keys so that the value of digital voltmeter becomes specification value. (refer to "table 3-4-2. VBsAdj Specifications")
- 5. Press the **II** key to write the adjusted value.
- 6. Press the key to select the next item, and repeat adjustments to item number 2243 at the same manner as step 3 to step 5.

Item No.	Display	Specification value	Measuring point
2241	241 AD * *	1.13 V ± 0.01 V	CL8001
2242	242 AD **	2.05 V + 0.02 V	CL8027
2243	243 AD **	$3.30 \text{ V} \pm 0.01 \text{ V}$	CL8055

Note1: "**" is adjustment value (hexadecimal number).

Note2: Ground point of all adjustment points is CL433.

Note3: Refer to page 18 for adjustment location.

Table 3-4-2. VBsAdj Specifications

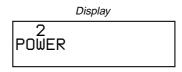
- 7. Press the key to select the item number 2244, and turn off the power supply of battery terminal.
- 8. Adjust with VOL+/VOL- keys so that the voltage of between CL935 and CL433 (GND) becomes 1.80 V (-0.02 V).
- 9. Press the **III** key to write the adjusted value.
- 10. Apply the voltage of 1.2 V to the battery terminal again.
- 11. Press the key to display "240 VBsAdj" (Item number: 2240).
- 12. Turn off the voltage of 5 V to the CL453 (VBUS 5V) and CL460 (VBUS GND).
- Press the key three times and back to the Display Check mode

3-5. Charge Function Check

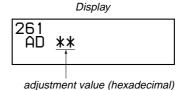
Note: When perform this check, don't apply a voltage to battery terminals.

Procedure

- Connect the digital voltmeter to CL431 (BATT+) and CL433 (GND).
- 2. Enter the test mode using the AC adapter.
- 3. Press the VOL+ key to enter the Manual mode.
- 4. Press the VOL+ key twice to display as follows.



Press the | key once, press the | VOL+ | key once, press the | key once, press the | VOL+ | key three times, and press the | key once to display as follows.



- Adjust with VOL+/VOL- keys so that the value of digital voltmeter becomes 1.80 V.
- 7. Press the **III** key to write the adjusted value.
- 8. Press the key to select the next item.
- 9. Disconnect the digital voltmeter.
- Press the key to select the next item (2262) and display "262 AD CC".
- Press the key and confirm that the adjustment value changes from "CC" to "DD".
 - If it changes to "BB", IC401 (for charge IC) is fault.
- 12. Press the key to select the next item (2263) and display "263 AD CC".
- Press the key and confirm that the adjustment value changes from "CC" to "DD".
 - If it changes to "BB", IC401 (for charge IC) is fault.
- 14. Disconnect the power supply (AC adaptor).
- 15. Connect the resistor of the specified value (see table below) to the battery terminals (CL431: BATT+, CL432: BATT-), and then connect the AC adapter again, and enter the test mode.
- 16. Select item number 2264 through the operation similar to steps 2 to 8.
- 17. Press the le key and confirm that the adjustment value changes from "CC" to "DD".
 - If it changes to "BB", IC401 (for charge IC) is fault.
- 18. In the same manner, exchange the resistors with the power supply disconnected, and confirm that the adjustment value is "CC" in each item number.

Note: Be sure to disconnect the AC adapter when exchanging the resistors. Doing so with the power supply connected causes a trouble.

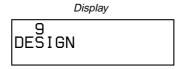
Item No.	Display	Connecting Resistor
2262	262 AD **	No resistor
2263	263 AD **	No resistor
2264	264 AD **	22 Ω (0.1 watts or more)
2265	265 AD **	$10 \Omega (1.0 \text{ watts or more})$
2266	266 AD **	$10 \Omega (1.0 \text{ watts or more})$
2267	267 AD **	2.2Ω (1.5 watts or more)

Table 3-5-1. Charge Adjustment Specifications

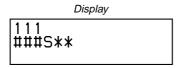
3-6. Laser Power Check

Procedure:

- 1. In the test mode (Display Check mode), press the VOL+ key to enter the Manual mode.
- Open the lid and press the key continuously until the optical pick-up moves to the most inward track.
- 3. Set the laser power meter so that the laser beam from the optical pick-up aims at the objective lens of laser power meter at right angle.
- 4. Press the VOL- key once to display as follows.



Press the key three times to select the item number 9111 and display as follows.



- 6. Confirm that the value of laser power meter is 0.67 mW \pm 21%.
- 7. Press the key to select the item number 9112.
- 8. Confirm that the value of laser power meter is 0.76 mW \pm 18%.
- 9. Press the key to select the item number 9113.
- 10. Confirm that the value of laser power meter is 6.25 mW \pm 12%
- Press the key four times and back to the Display Check mode.

3-7. Setting The Adjustment Values 3-7-1. Hi-MD3 setting

Preparation:

- Perform calculation every item based on the data given by the Hi-MD3 adjustment disc by referring to the following table. (Round off the value in decimal place)
- 2. Convert the calculated value into hexadecimal number.

Note: The Hi-MD3 adjustment parameters vary depending on the disc, and therefore use the parameters of the disc used when performing the adjustment.

Item No.	Calculating formula (*3)
0211	Pr_nominal / 0.05
(*1)	Por / 0.05
0212	Kr × (-100)
0213	Pw_nominal / 0.05
(*2)	Ppw / 0.05
0214	Kw × (-100)
0215	Prmin / 0.05
0216	Pwmin / 0.05

- *1) If the "Pr_nominal" value is indicated, use the "Pr_nominal" value and not used "Por" value.
- *2) If the "Pw_nominal" value is indicated, use the "Pw_nominal" value and not used "Ppw" value.
- *3) Round off after the decimal point.

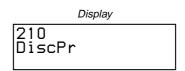
Table 3-7-1. Hi-MD3 adjustment parameter

Example of Calculation:

Item No.	Parameter			Result
item No.			Decimal	Hexadecimal
0211	Pr_nominal 2.50 mW		50	32h
0212	Kr	−0.3 %/°C	30	1Eh
0213	Pw_nominal	7.35 mW	147	93h
0214	Kw	−0.4 %/°C	40	28h
0215	Prmin	1.9 mW	38	26h
0216	Pwmin	5.8 mW	116	74h

Procedure:

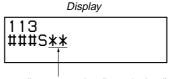
- 1. In the test mode (Display Check mode), press the VOL+ key to enter the Manual mode.
- 2. Press the key once, press the VOL+ key once, and press the key once again to display as follows.



- 3. Press the key once to select the item number 0211.
- Adjust with VOL+/VOL- keys so that the adjustment value of LCD becomes calculated value.
- 5. Press the **II** key to write the adjusted value.
- 6. Press the key to next item.
- 7. Repeat adjustment from step 4 until item number 0216.

3-7-2. Other setting

- 1. In the test mode (Display Check mode), press the VOL+ key to enter the Manual mode.
- Press the key five time to select the item number 0113 and display as follows.



adjustment value (hexadecimal)

- Press the VOL+/VOL- key and set the according value to each model type and destination referring to the following table.
- 4. Press the **II** key to write the adjusted value.

Destination	Model Type		
Destination	MZ-NH700	MZ-NHF800	
US	-	50	
Canadian, Australian	20	30	
AEP, UK, East European	A0	В0	
E18, Hong Kong, Korean,	25	34	
Chinese, Tourist	23	34	
E91, Mexican	20	_	

Abbreviation

E18: 100V - 240V AC area in E model

E91: 220V AC area in E model

Table 3-7-2. Mode Type and Destination Setting

MZ-NH700/NHF800

Ver 1.1

3-8. Servo Overall Adjustment

Note1: Be sure to adjustment so that the set is horizontal and the LCD is upside. Unless performed in that state, it is not adjusted correctly.

Note2: If NG is displayed in the middle of this adjustments, perform "3-2. Initialize The Adjustment Value" and "3-7. Setting The Adjustment Values" again, then retry this adjustments from step 1.

Procedure:

- Insert the full charged Ni-MH rechargeable battery (NH-10WM), then open and close the lid and enter the test mode (Display Check mode).
- 2. Press the VOL- key to enter the Overall Adjustment mode.
- 3. Insert the CD adjustment disc (TDYS-1).
- 4. Put the main unit horizontal so that the LCD becomes upside, and press the key.
- 5. Wait until "CD OK" is displayed on the LCD.
- Insert the MD1/HiMD1 hybrid adjustment disc (MDW-74/GA1).
- 7. Put the main unit horizontal so that the LCD becomes upside, and press the key.
- 8. Wait until "MD1 OK" is displayed on the LCD.
- 9. Insert the Hi-MD3 adjustment disc (HMD1GSDJ).
- 10. Put the main unit horizontal so that the LCD becomes upside, and press the VOL+ key.
- 11. Wait until "HMD OK" is displayed on the LCD.
- 12. Eject the disc.
- 13. Put the main unit horizontal so that the LCD becomes upside, and press the VOL- key.
- 14. Wait until "OfstOK" is displayed on the LCD.
- 15. Press the key and back to the Display Check mode.

3-9. Resume Clear

Procedure:

- 1. In the test mode (Display Check mode), press the VOL+ key to enter the Manual mode.
- Press the VOL+ key once, press the NOL+ key once, press the NOL+ key once, press the NOL+ key twice, press the NOL+ key once, press the NOL+ key twice, press twice, press the NOL+ key twice, press twice,
- 3. Press the **III** key to resume clear.
- 4. Press the key four times and back to the Display Check mode. And remove the Ni-MH rechargeable battery.

3-10. Releasing The Test Mode

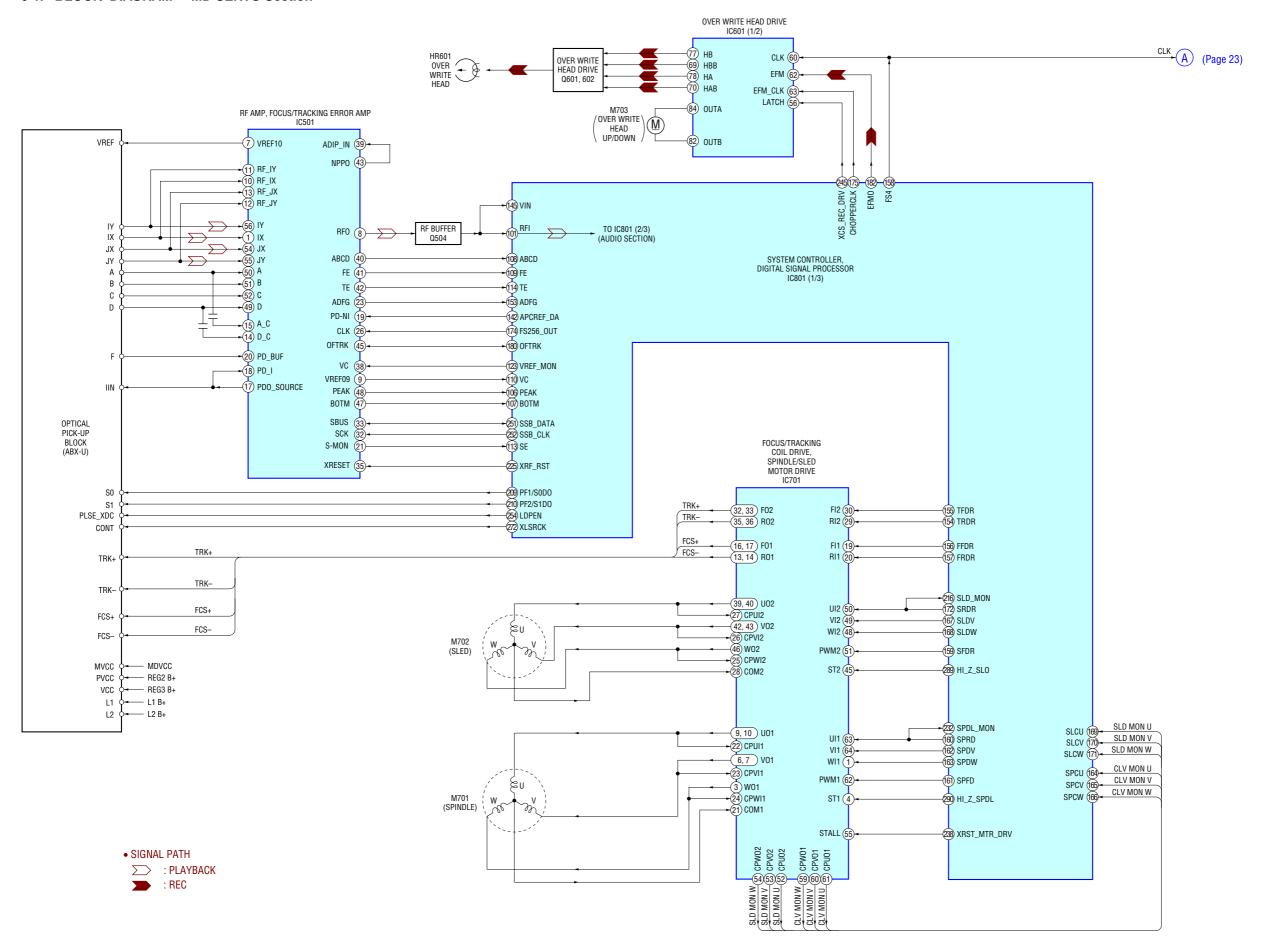
Refer to the "SECTION 4. TEST MODE".

Note: Once the test mode is activated with this application, the test mode is then activated forcibly by only turning on the power.

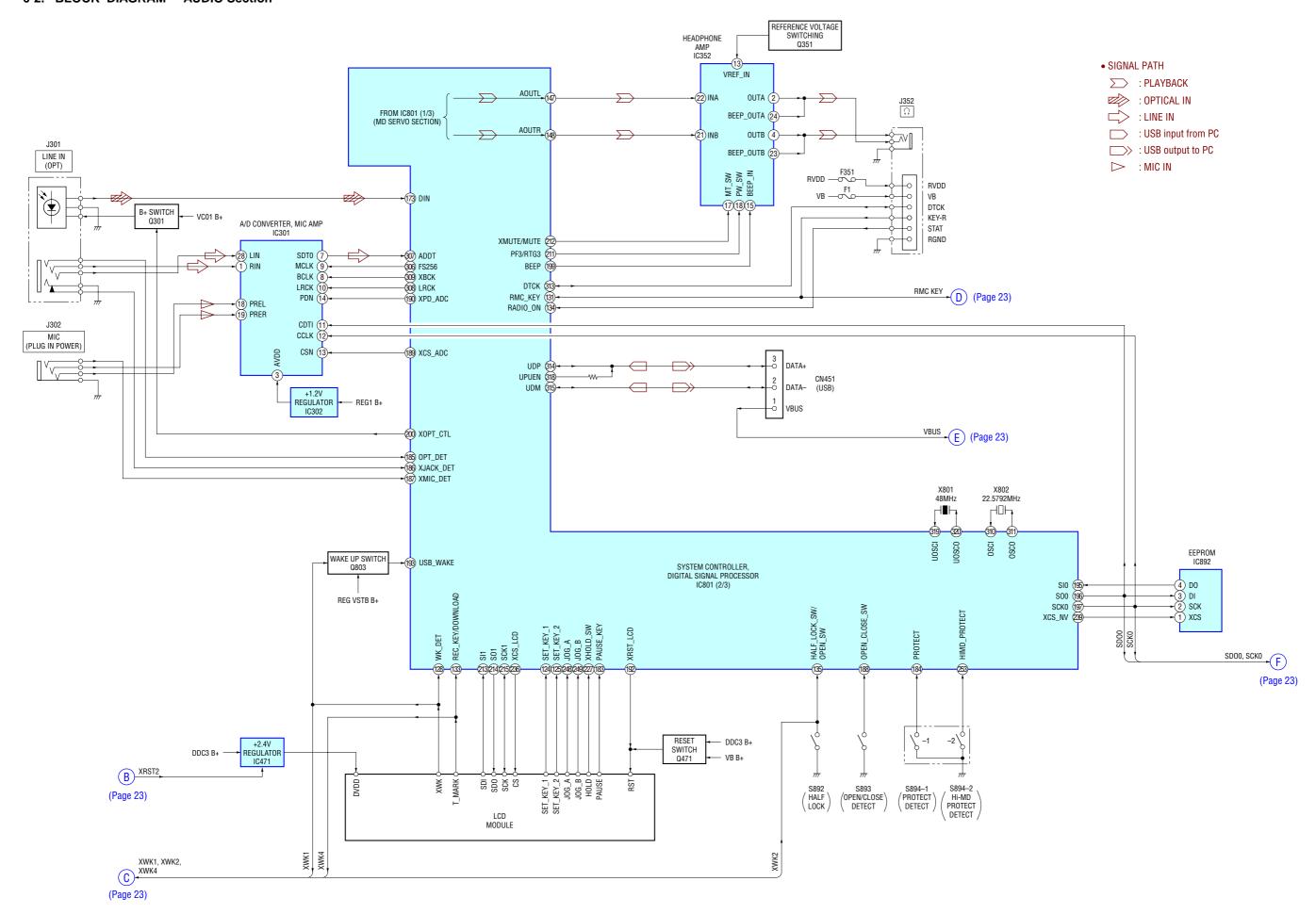
After the repair completed, be sure to release the test mode by using this application once more.

SECTION 6 DIAGRAMS

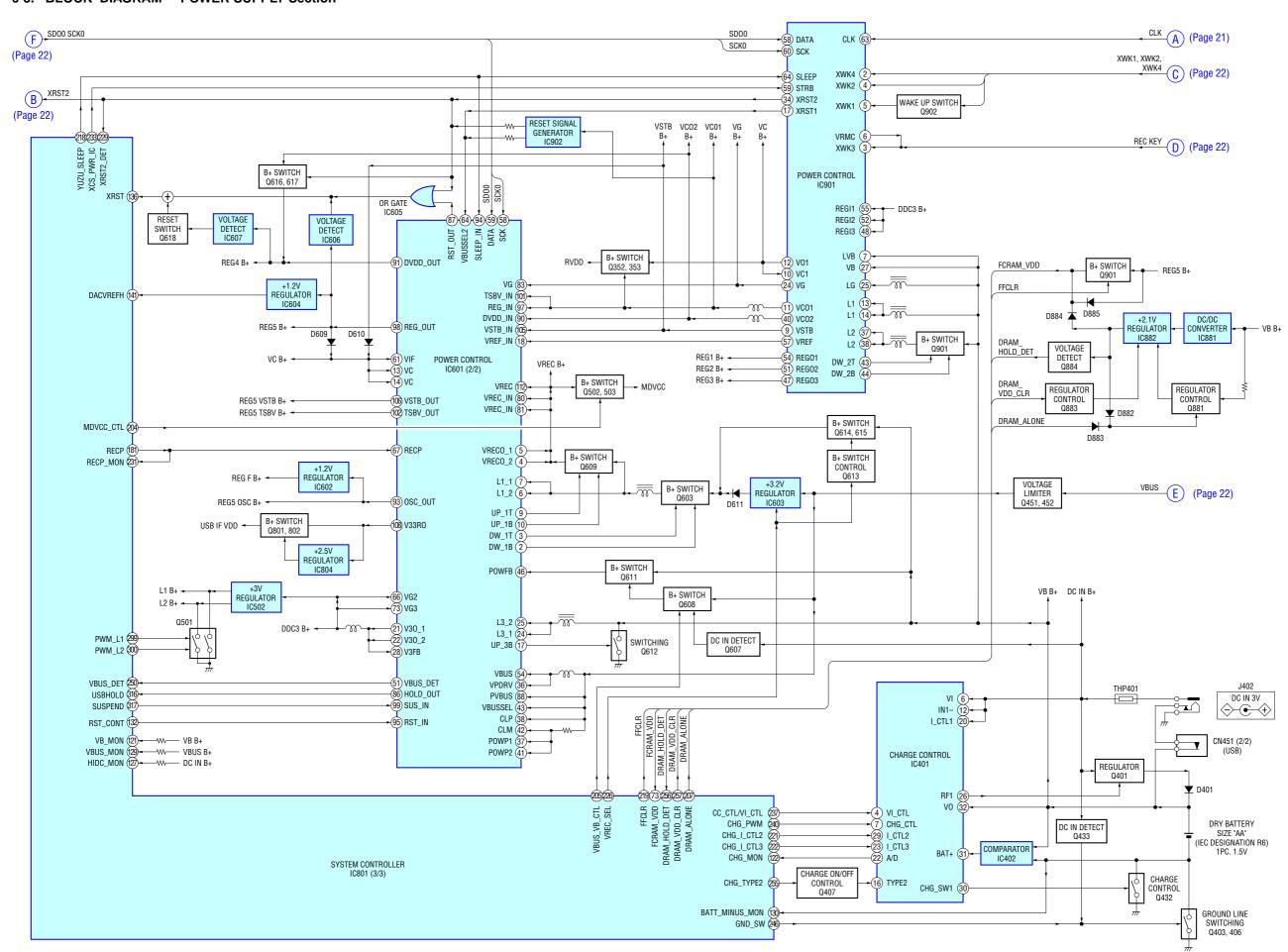
6-1. BLOCK DIAGRAM - MD SERVO Section -



6-2. BLOCK DIAGRAM - AUDIO Section -



6-3. BLOCK DIAGRAM - POWER SUPPLY Section -



• Note For Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Board:

- • : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

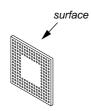
Parts face side:

Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated. Parts on the parts face side seen from (Component Side) the parts face are indicated.

• MAIN board is multi-layer printed board. However, the patterns of intermediate-layer have not been included in this diagrams.

Lead Layouts





Lead layout of conventional IC

CSP (chip size package)

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $^{1}\!/_{\!4}\,W$ or less unless otherwise specified.
 - Δ : internal component.
- : panel designation.

Note:

The components identified by mark △ or dotted line with mark \triangle are critical for safety. Replace only with part Note: Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une

pièce portant le numéro spécifié.

: B+ Line.

number specified.

- Total current is measured with MD installed.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground in playback mode.

no mark : PLAYBACK

* : Impossible to measure

- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

: PLAYBACK \sum

: REC

: OPTICAL IN

: LINE IN

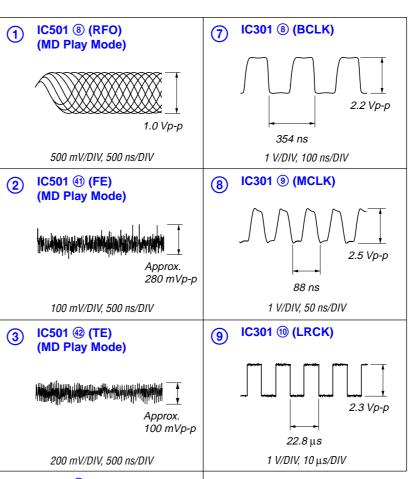
: USB input from PC

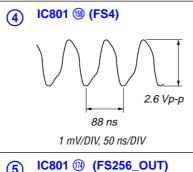
1000 : USB output to PC

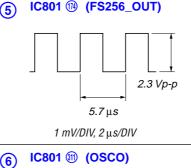
 \triangleright : MIC IN Abbreviation

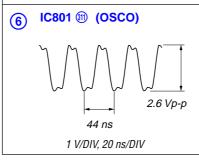
: East European model

Waveforms

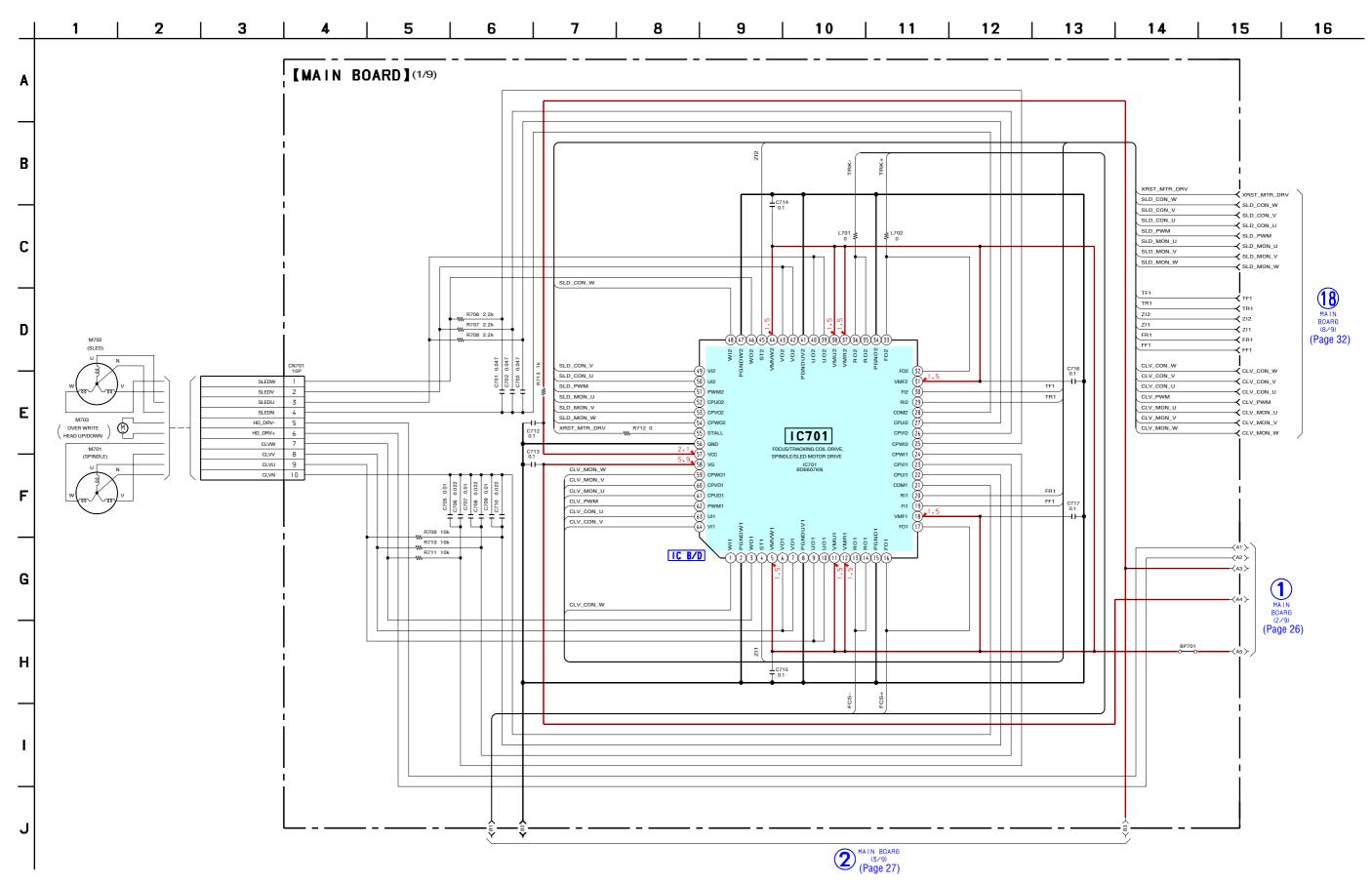




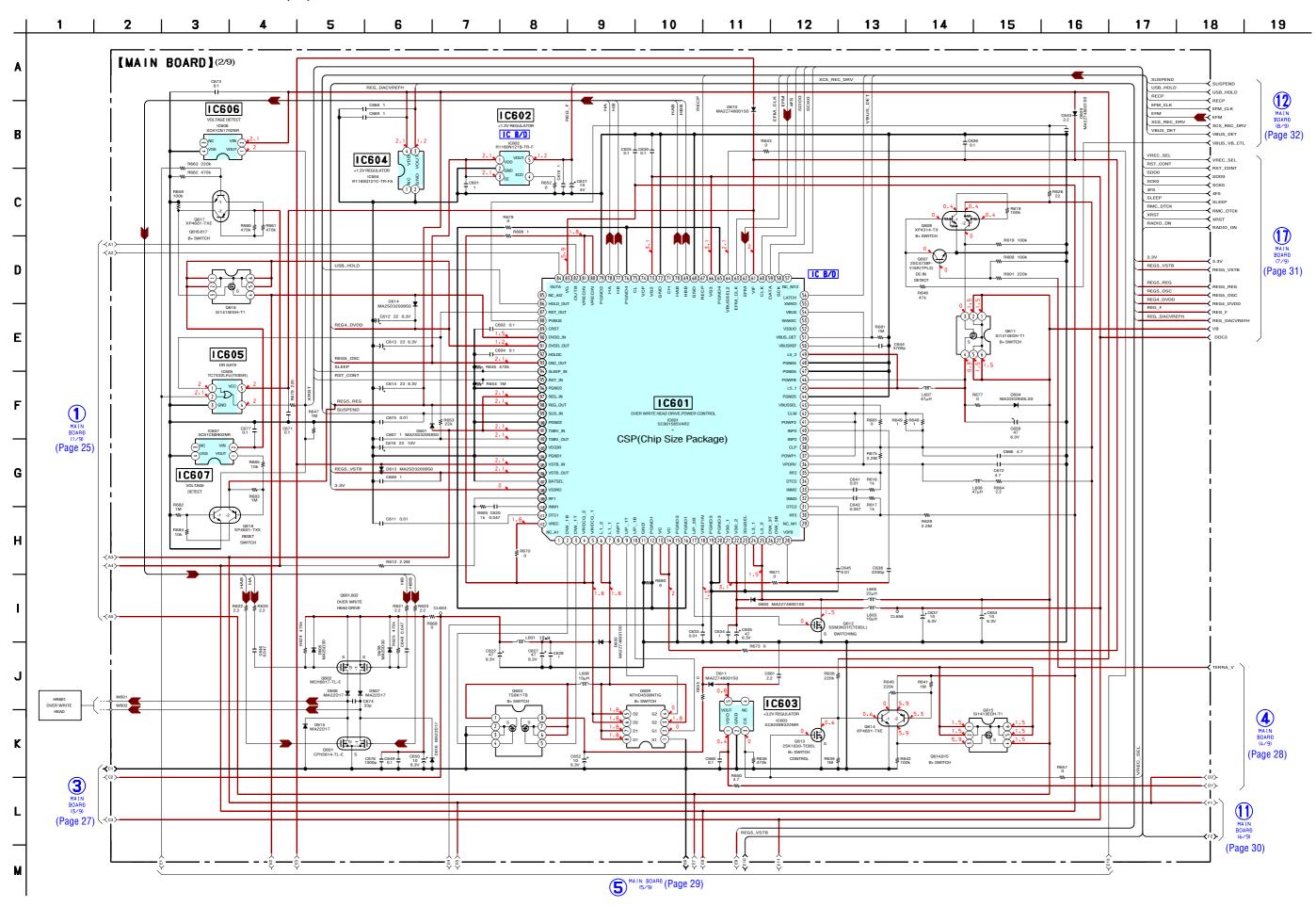




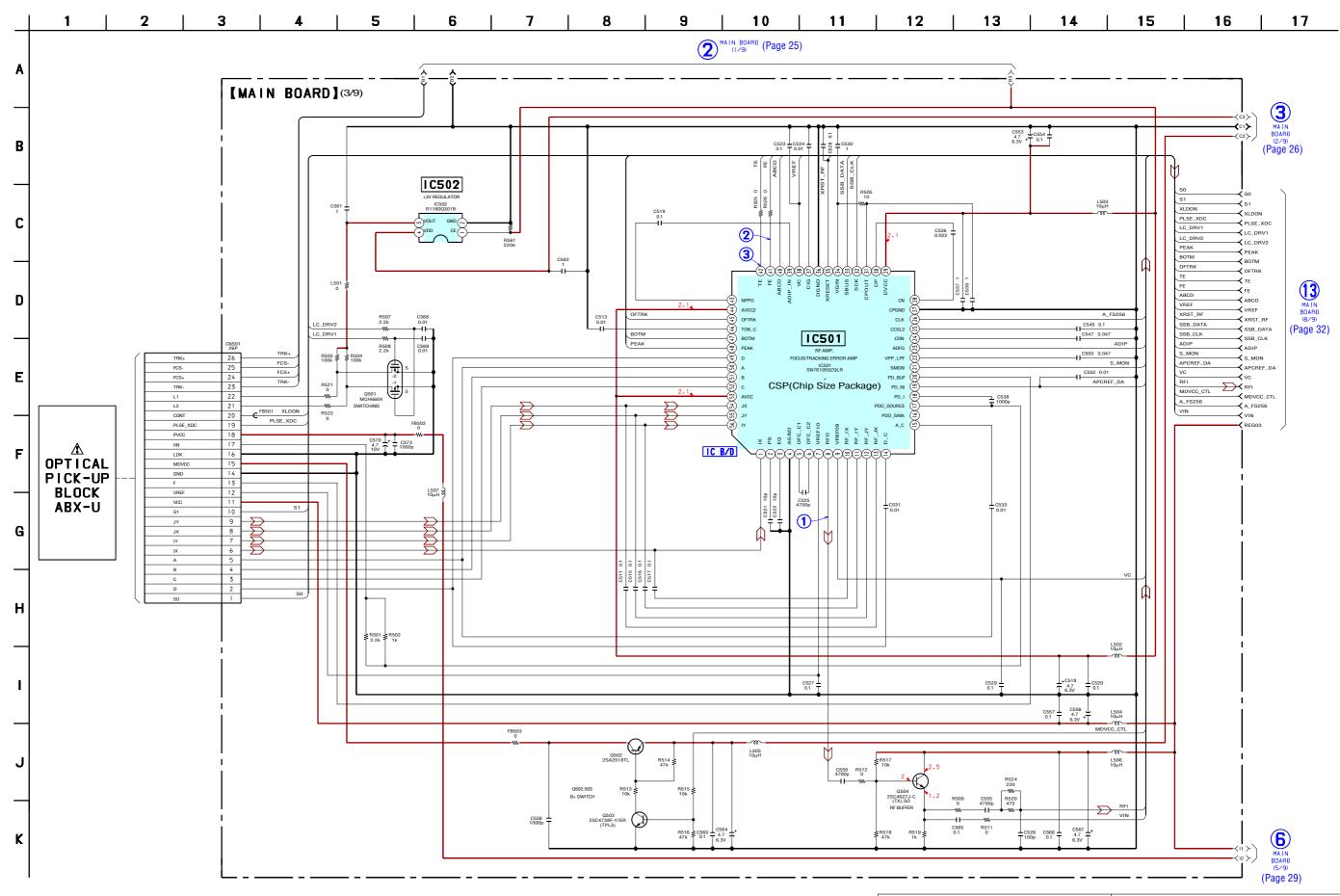
6-4. SCHEMATIC DIAGRAM – MAIN Section (1/9) – • See page 36 for IC Block Diagram.



6-5. SCHEMATIC DIAGRAM - MAIN Section (2/9) - • See page 36 for IC Block Diagrams.



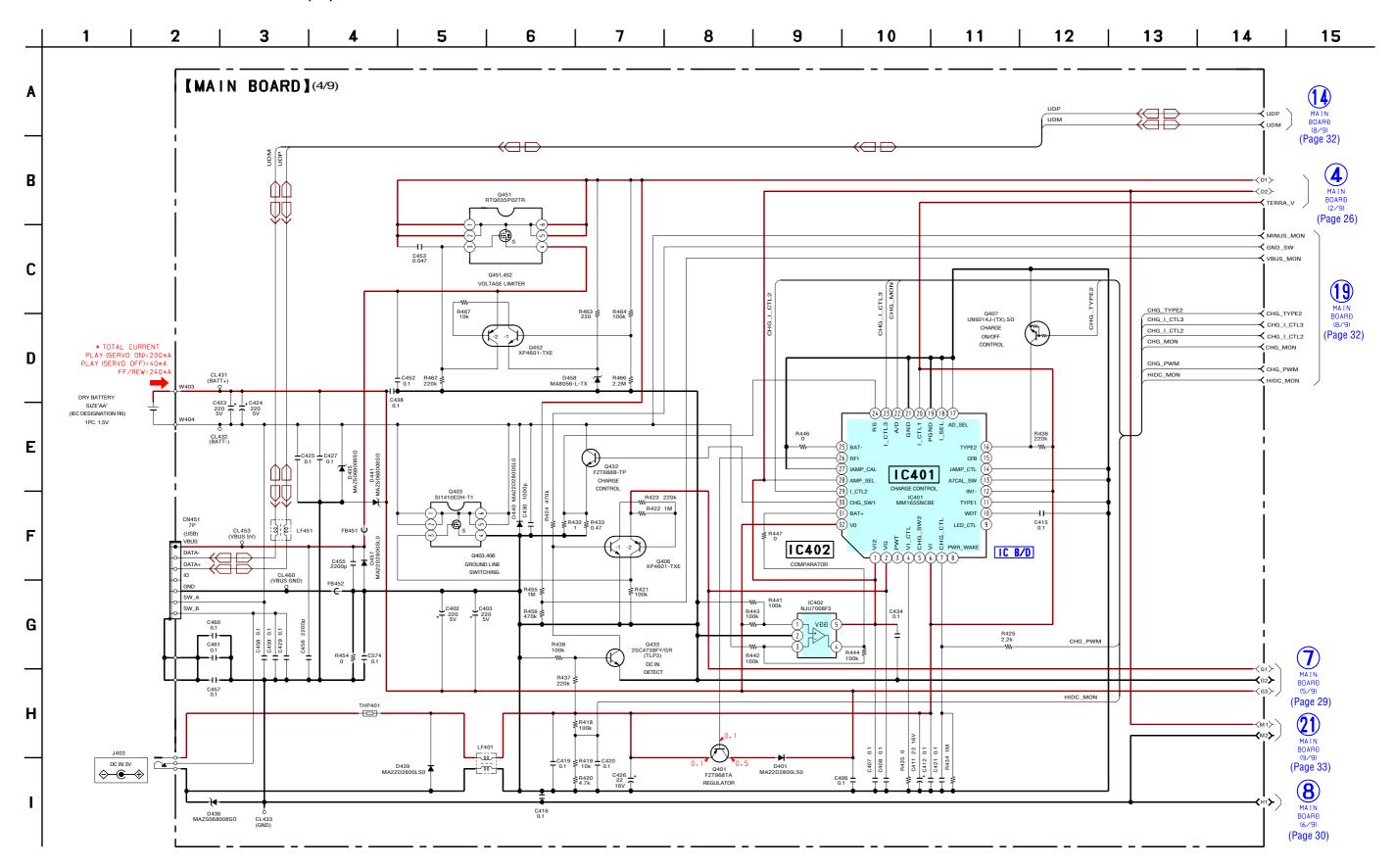
6-6. SCHEMATIC DIAGRAM - MAIN Section (3/9) - • See page 24 for Waveforms. • See page 36 for IC Block Diagram.

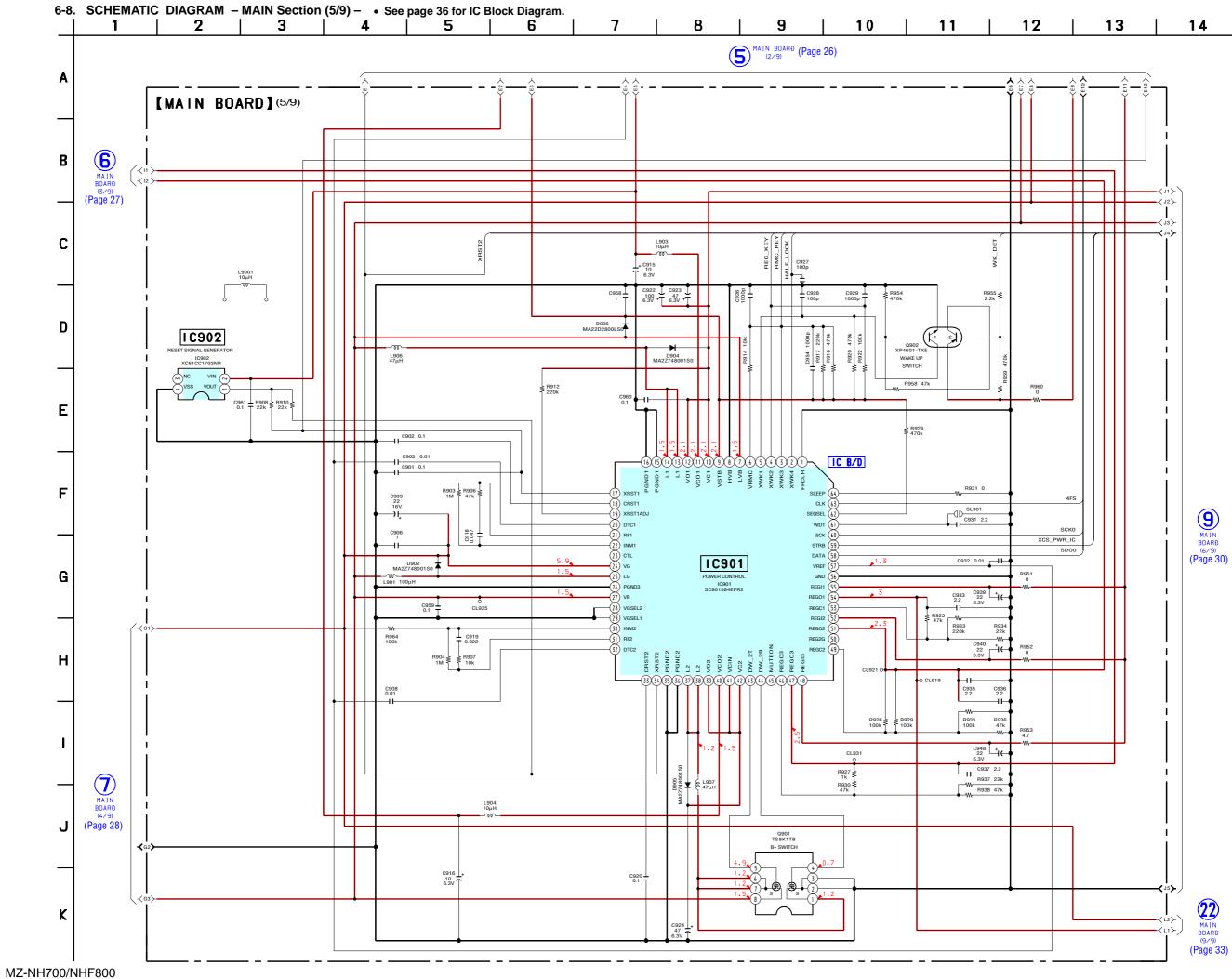


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

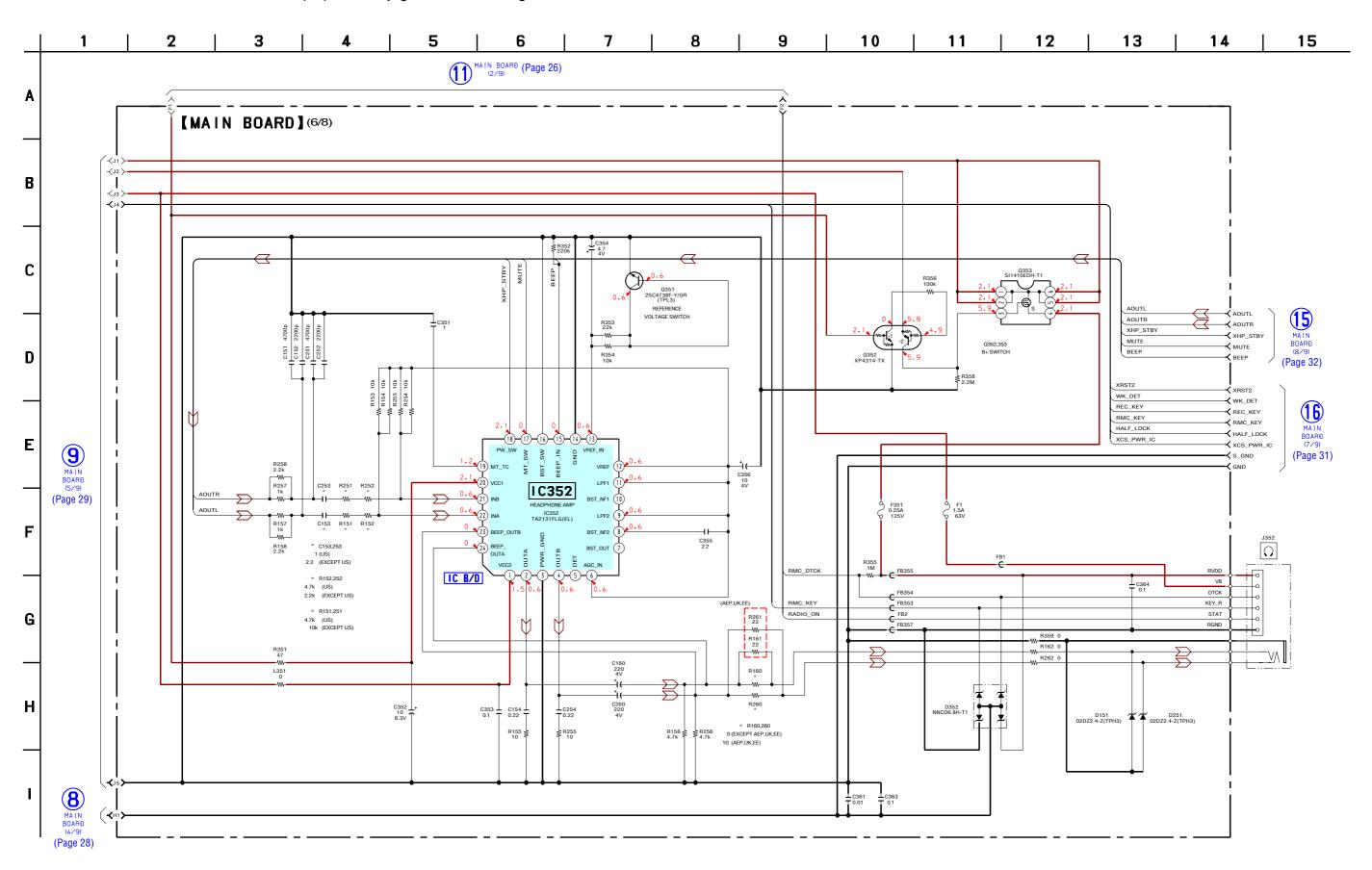
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-7. SCHEMATIC DIAGRAM - MAIN Section (4/9) - • See page 36 for IC Block Diagram.

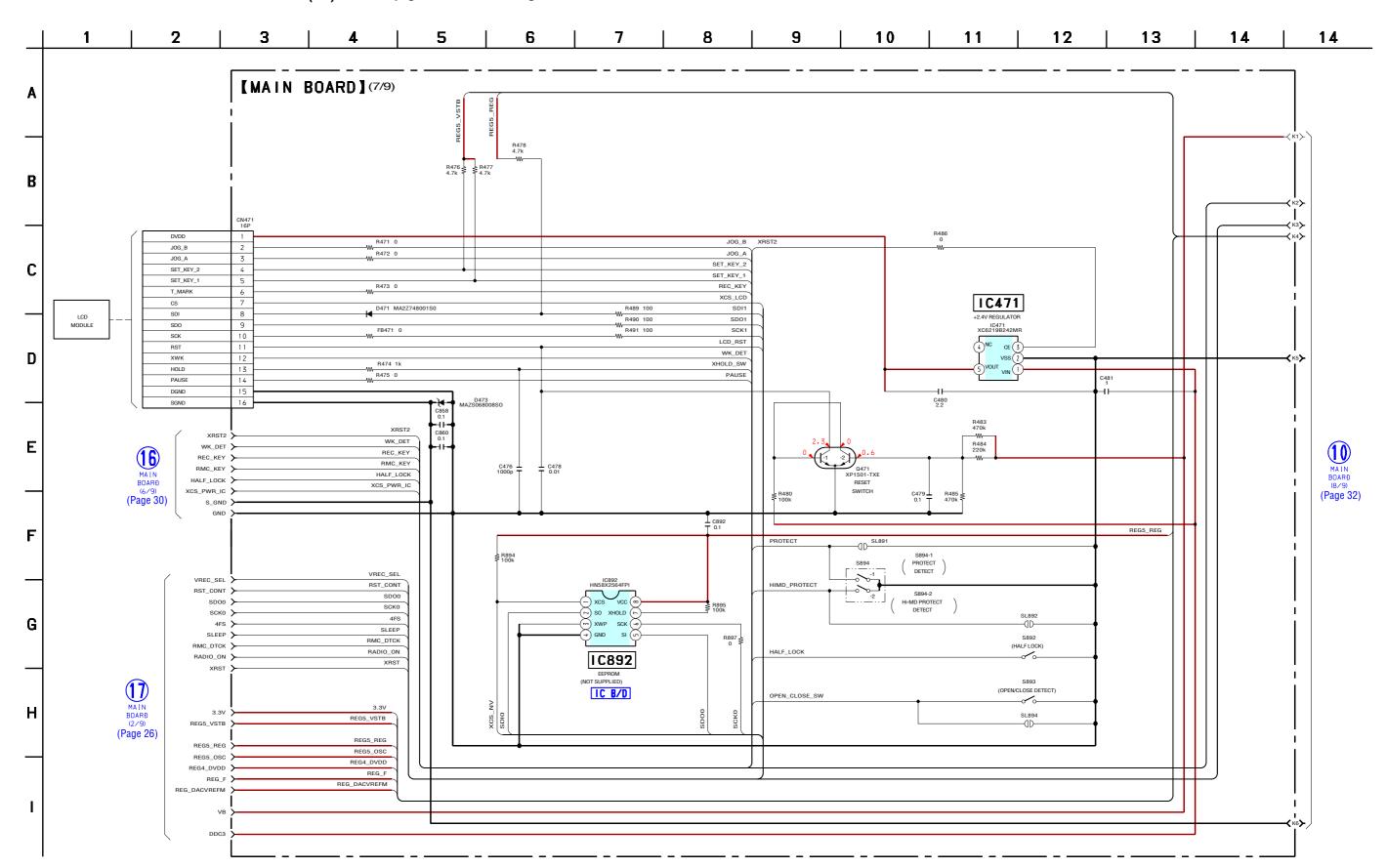




6-9. SCHEMATIC DIAGRAM - MAIN Section (6/9) - • See page 36 for IC Block Diagram.

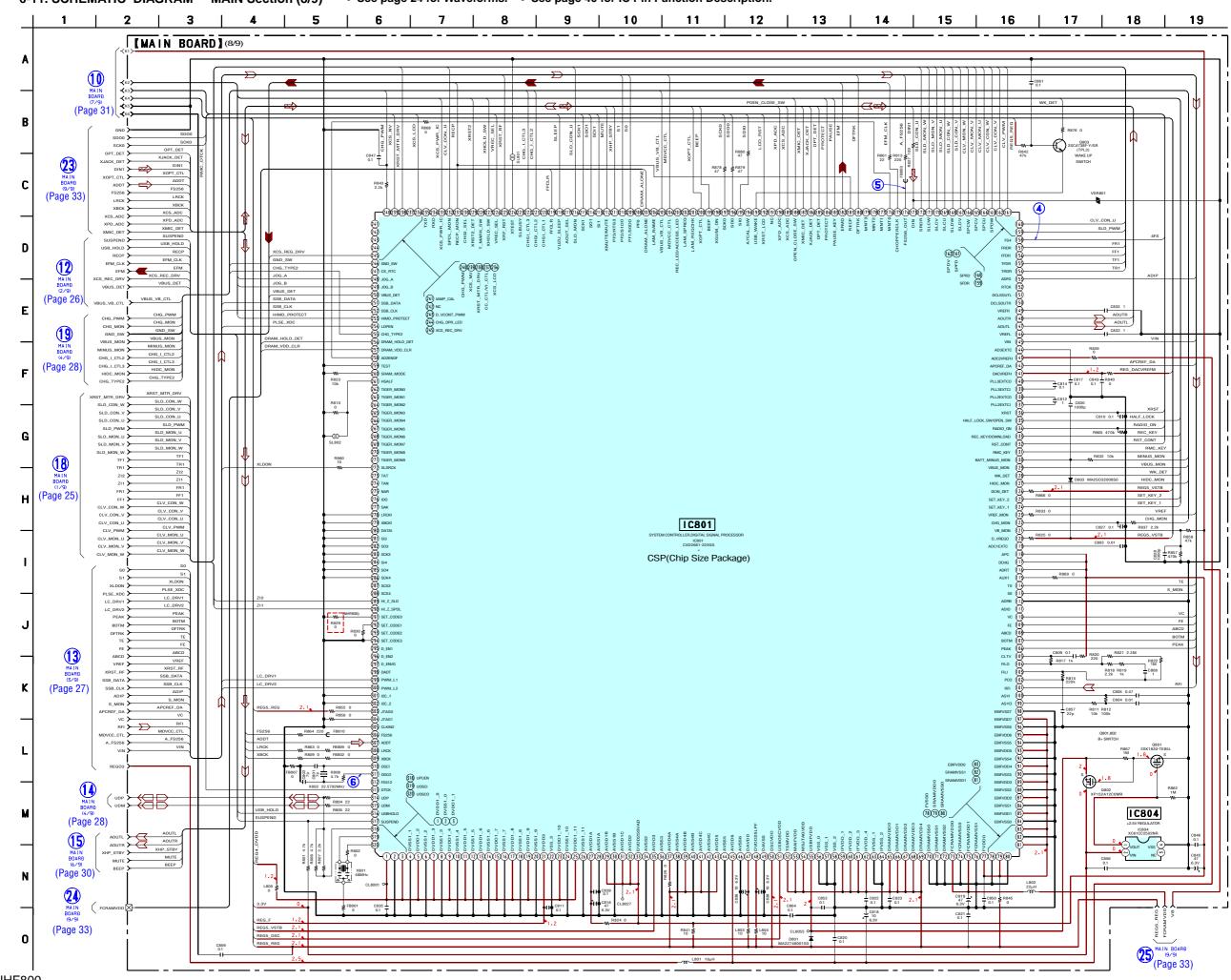


6-10. SCHEMATIC DIAGRAM - MAIN Section (7/9) - • See page 36 for IC Block Diagram.



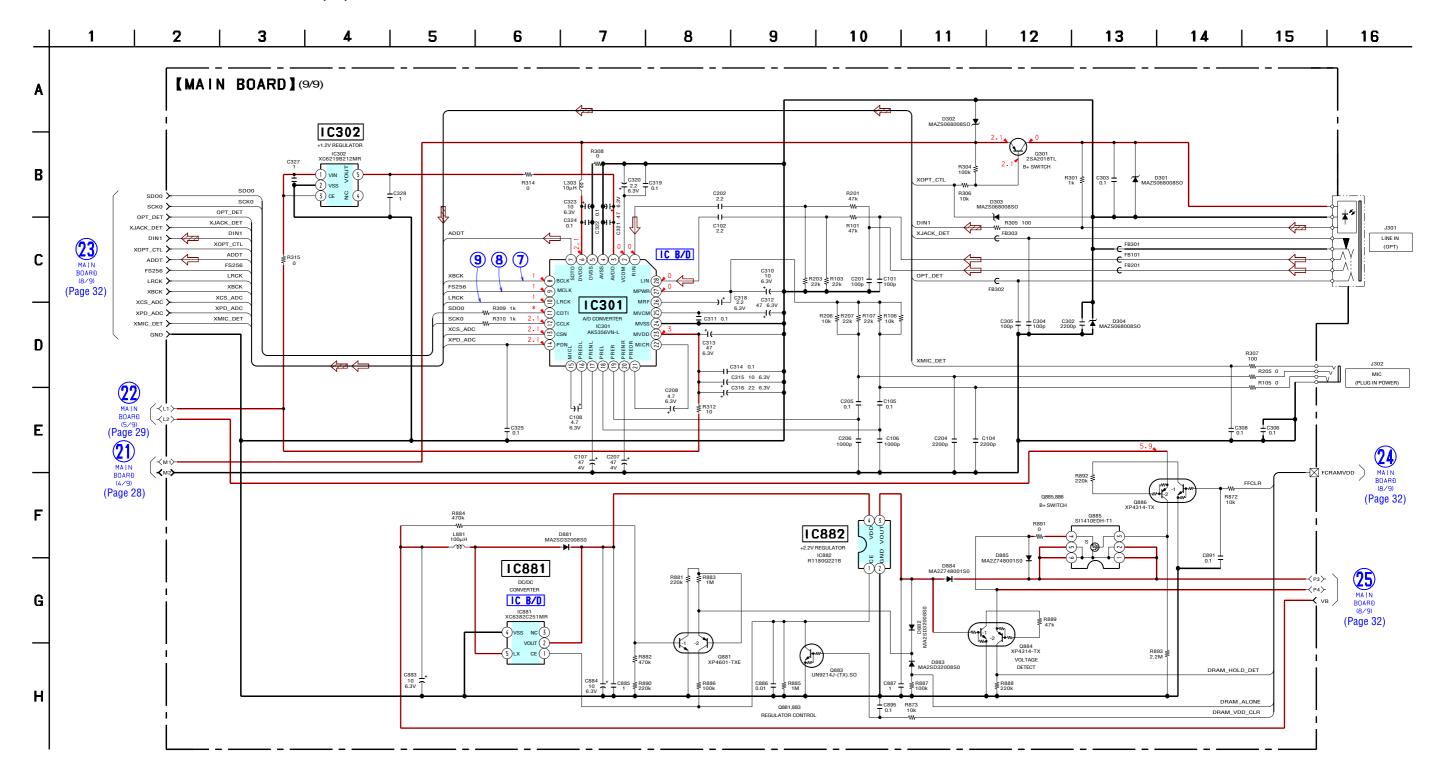
Ver 1.1

6-11. SCHEMATIC DIAGRAM – MAIN Section (8/9) – • See page 24 for Waveforms. • See page 40 for IC Pin Function Description.



32

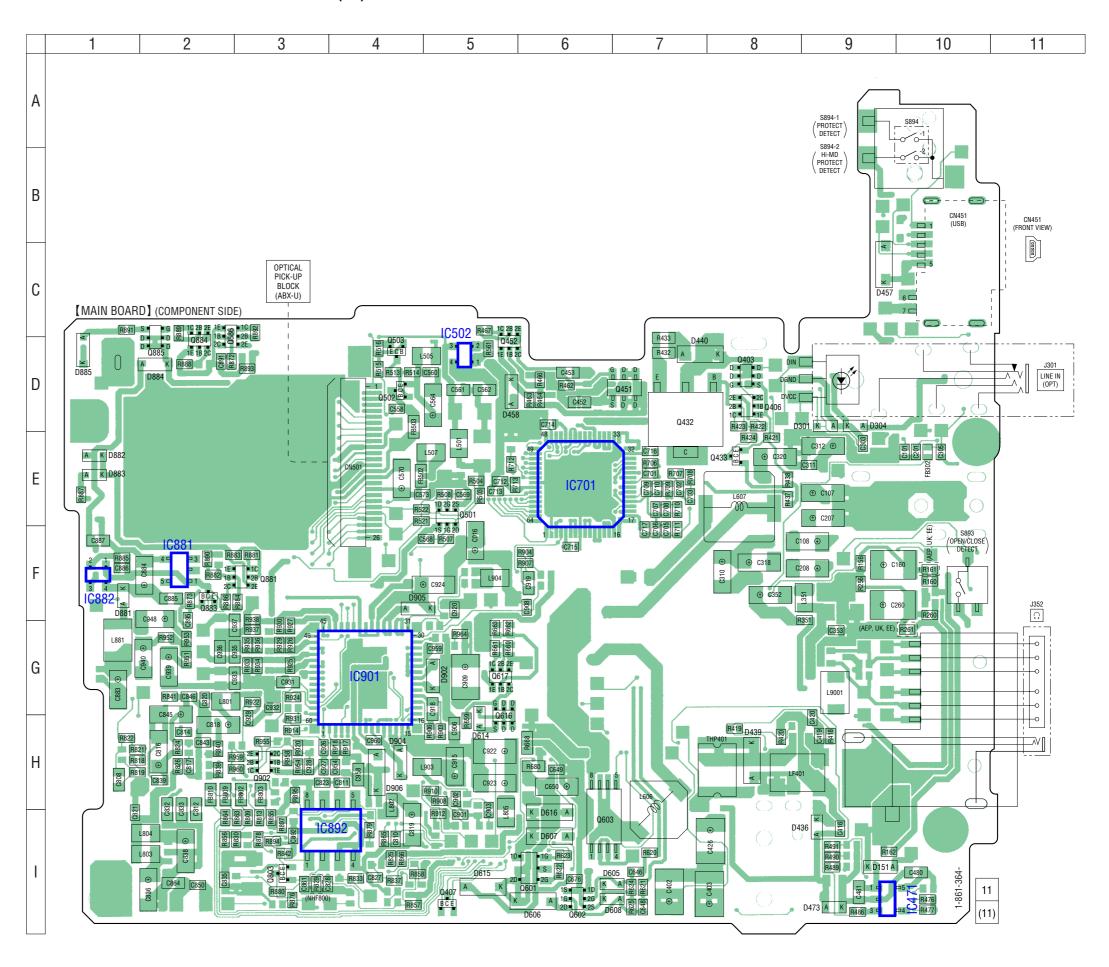
6-12. SCHEMATIC DIAGRAM – MAIN Section (9/9) – • See page 24 for Waveforms. • See page 36 for IC Block Diagrams.



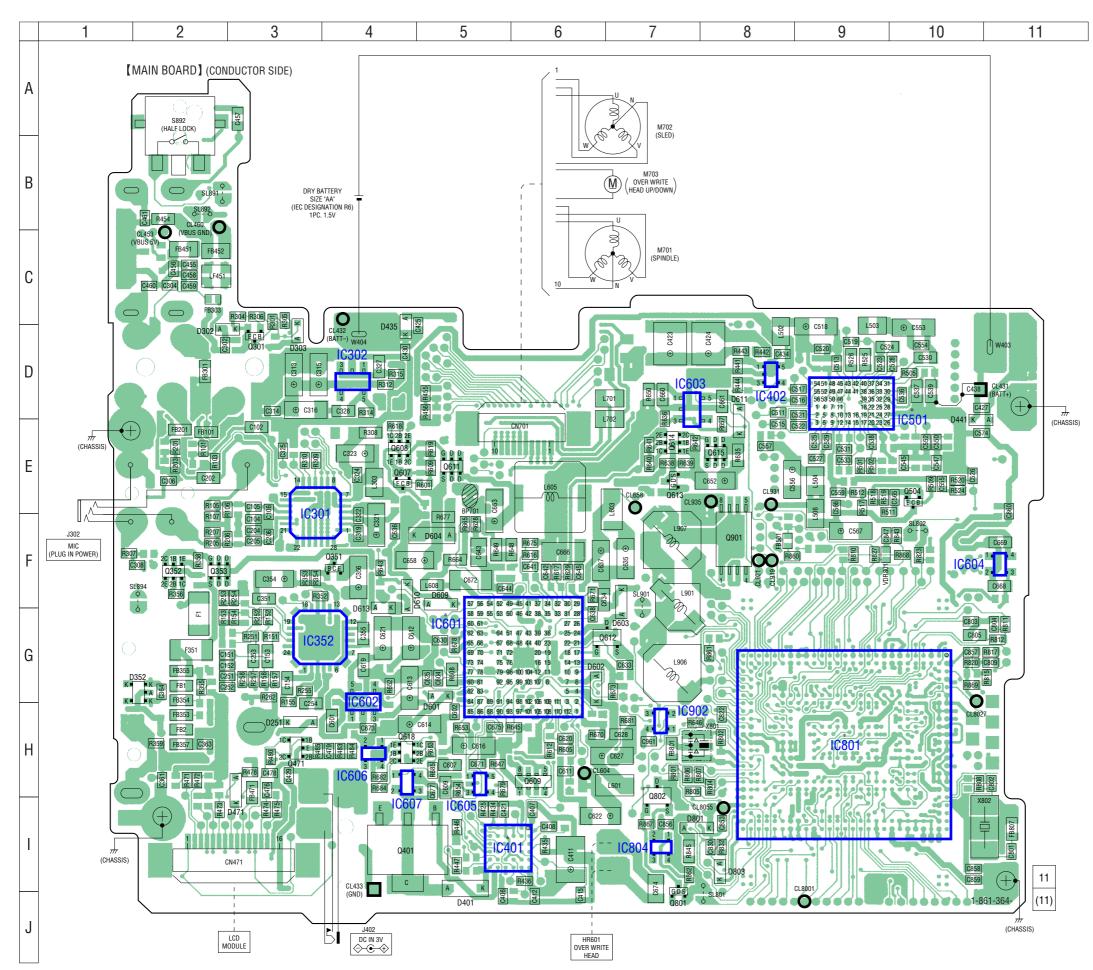
• Semiconductor Location

Ref. No.	Location
D151 D301 D304 D436 D439 D440 D457 D458 D473 D605 D606 D607 D608 D614 D615 D616 D881 D882 D883 D884 D885 D902 D904 D905 D906	I-9 D-9 D-9 I-9 H-8 D-7 C-9 D-5 I-6 I-6 I-6 I-6 I-6 I-7 I-7 I-9 I-9 I-9 I-9 I-9 I-9 I-9 I-9 I-9 I-9
IC471 IC502 IC701 IC881 IC882 IC892 IC901	I-9 D-5 E-6 F-2 F-1 I-4 G-4
Q403 Q406 Q407 Q432 Q433 Q451 Q452 Q501 Q502 Q503 Q601 Q602 Q603 Q616 Q617 Q883 Q881 Q883 Q884 Q885 Q886 Q902	D-8 D-8 I-5 D-7 E-8 D-7 D-5 E-5 D-4 D-4 I-6 I-6 I-6 I-6 I-7 I-7 I-7 I-8 I-8 I-9

6-13. PRINTED WIRING BOARD - MAIN Section (1/2) - : Uses unleaded solder.



6-14. PRINTED WIRING BOARD - MAIN Section (2/2) - ** : Uses unleaded solder.



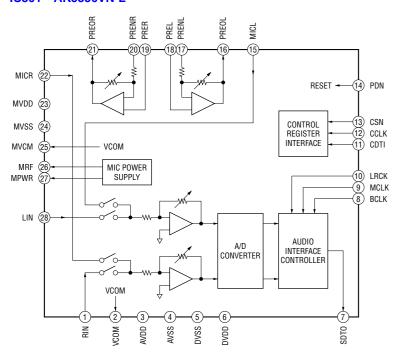
Semiconductor Location

Location		
Ref. No.	Location	
D251 D302 D303 D352 D401 D435 D441 D471 D601 D602 D603 D604 D609 D610 D611 D613 D801 D803	H-3 D-2 D-3 G-2 I-5 D-4 D-10 H-3 G-5 G-6 F-7 F-5 F-5 F-4 E-8 G-4 I-7	
IC301 IC302 IC352 IC401 IC402 IC501 IC601 IC602 IC603 IC604 IC605 IC606 IC607 IC801 IC804 IC902	F-3 D-4 G-3 I-5 D-8 D-9 G-6 H-4 D-7 F-11 H-5 H-4 H-9 I-7	
Q301 Q351 Q352 Q353 Q401 Q471 Q504 Q607 Q608 Q609 Q611 Q612 Q613 Q614 Q615 Q618 Q801 Q802 Q901	D-3 F-4 F-2 F-2 I-4 H-3 E-10 E-4 H-6 E-5 G-7 E-7 E-7 E-7 E-7 E-8 H-4 I-7 H-7 F-8	

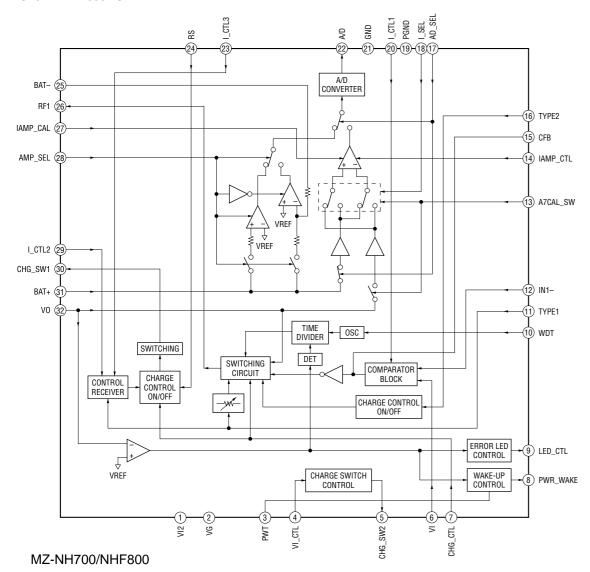
MZ-NH700/NHF800

• IC Block Diagrams

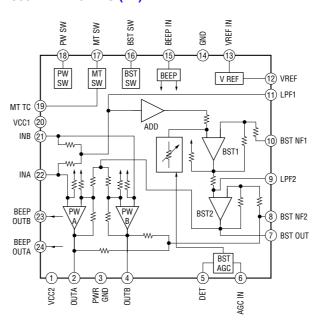
IC301 AK5356VN-L



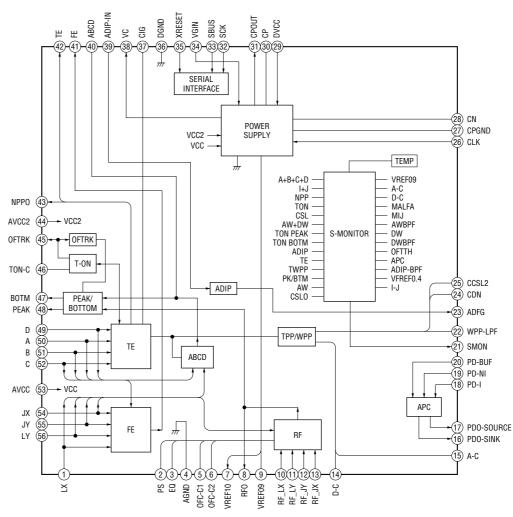
IC401 MM1655NCBE



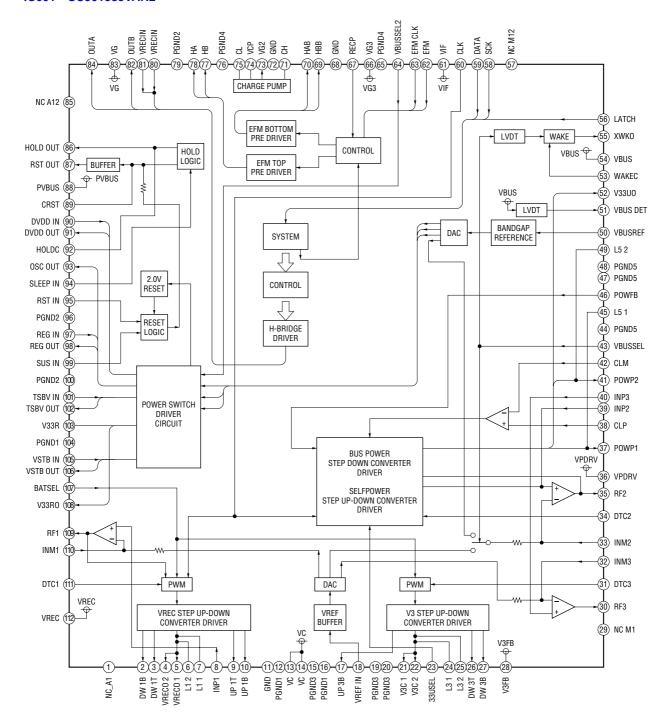
C352 TA2131FLG (EL)



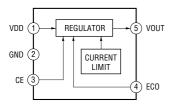
IC501 SN761059ZQLR



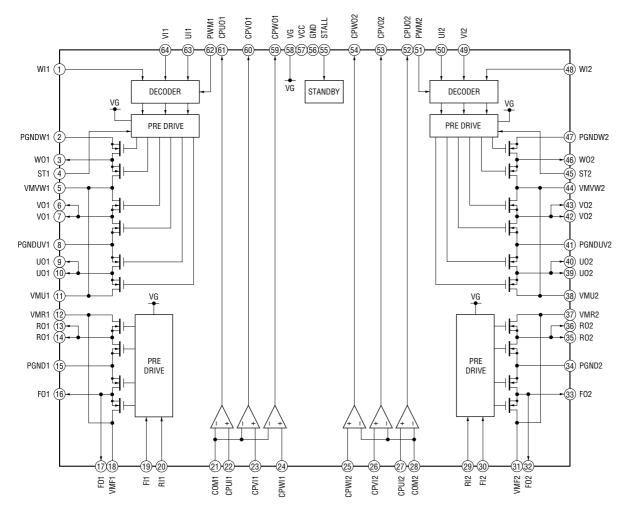
IC601 SC901585VAR2



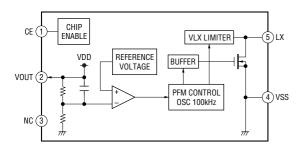
IC602 R1160N121B-TR-FA



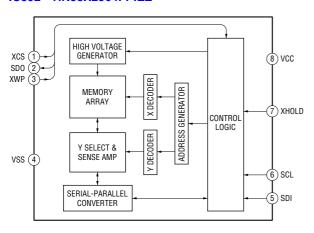
IC701 BD6607KN



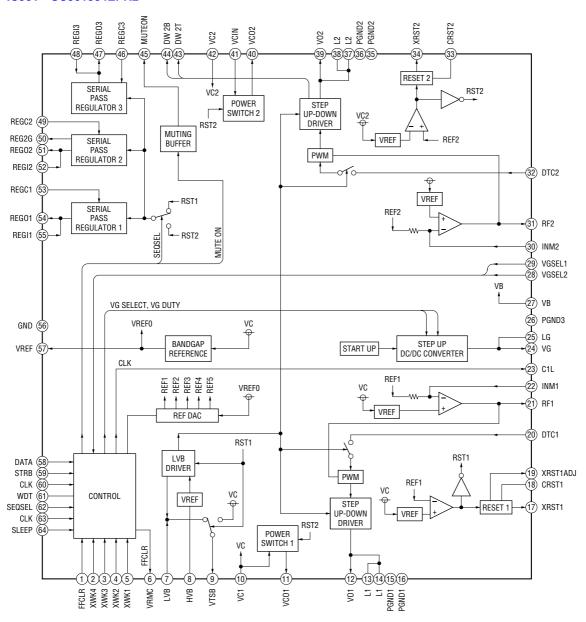
IC881 XC6382C251MR



IC892 HN58X2564FPIEZ



IC901 SC901584EPR2



Ver 1.1

• IC Pin Function Description

IC801 CXD2681-223GG (SYSTEM CONTROLLER, DIGITAL SIGNAL PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	DVDD1_0		Power supply terminal
2	DVSS1_0	_	Ground terminal
3	DVDD1_1	_	Power supply terminal
4	DVSS1_1	_	Ground terminal
5	DVDD1_2	_	Power supply terminal
6	DVSS1_2	_	Ground terminal
7	DVDD1_3	_	Power supply terminal
8	DVSS1_3	_	Ground terminal
9	DVDD1_4	_	Power supply terminal
10	DVSS1_4	_	Ground terminal
11	DVDD1_5	_	Power supply terminal
12	DVSS1_5		Ground terminal
13	DVDD1_6		Power supply terminal
14	DVSS1_6		Ground terminal
15	DVDD1_7		Power supply terminal
16	DVSS1_7	_	Ground terminal
17	DVDD1_8	_	Power supply terminal
18	DVSS1_8	_	Ground terminal
19	DVDD1_9	_	Power supply terminal
20	DVSS1_9	_	Ground terminal
21	DVDD3	_	Power supply terminal
22	VSS_3	_	Ground terminal
23	DVDD1_10	_	Power supply terminal
24	DVSS1_10	_	Ground terminal
25	DVDD1_11	_	Power supply terminal
26	DVSS1_11	_	Ground terminal
27	AVDD1A	_	Power supply terminal (for PLL)
28	AVSS1A	_	Ground terminal (for PLL)
29	AVDD1B	_	Power supply terminal
30	AVSS1B	_	Ground terminal
31	AVDD1C	_	Power supply terminal
32	AVDD2	_	Power supply terminal (for A/D converter)
33	DVDD25SVADC	_	Power supply terminal (for A/D converter)
34	AVSS2	_	Ground terminal (for A/D converter)
35	AVDD3		Power supply terminal (for A/D converter)
36	AVSS3	_	Ground terminal (for A/D converter)
37	AVDD4A	_	Power supply terminal (for PLL)
38	AVSS4A	_	Ground terminal (for PLL)
39	AVDD4B		Power supply terminal (for PLL)
40	AVSS4B	_	Ground terminal (for PLL)
41	AVDD4C	_	Power supply terminal (for D/A converter)
42	AVSS4C	_	Ground terminal (for D/A converter)
43	AVDD5	_	Power supply terminal (for PLL)
44	AVSS5		Ground terminal (for PLL)
45	AVDD6	_	Power supply terminal (for A/D converter)
46	AVSS6	_	Ground terminal (for A/D converter)

Pin No.	Pin Name	I/O	Description
		1/0	
47	DAVDD		Power supply terminal (for D/A converter)
48	DVDD25LPF		Power supply terminal (for D/A converter)
49	DAVSS	_	Ground terminal (for D/A converter)
50	OSCVDD	_	Power supply terminal (for 22 MHz OSC)
51	USBOSCVDD	_	Power supply terminal (for the USB 48 MHz OSC)
52	TSMVDD	_	Power supply terminal (for the TSB master communication)
53	MAIFVDD	_	Power supply terminal (for MA interface)
54	MSJTAGVDD		Power supply terminal (for AUX)
55	USBIFVDD	_	Power supply terminal (for USB interface)
56 to 58	VSS_0 to VSS_2	_	Ground terminal
59 to 62	IFVDD_1 to IFVDD_4		Power supply terminal (for interface)
63	IFVSS_1	_	Ground terminal (for interface)
64	IFVSS_2		Ground terminal (for interface)
65 to 69	DRAMVDD0 to DRAMVDD4		Power supply terminal (for D-RAM/DSP interface)
70 to 72	DRAMVSS0 to DRAMVSS2	_	Ground terminal (for D-RAM/DSP interface)
73	FCRAMVDD0	1	Power supply terminal (for D-RAM)
74	FCRAMVSS0	_	Ground terminal (for D-RAM)
75	FCRAMVDD1		Power supply terminal (for D-RAM)
76	FCRAMVSS1		Ground terminal (for D-RAM)
77	FVDD0	_	Power supply terminal (for AUX)
78	FVSS0	_	Ground terminal (for AUX)
79	SRAMVDD0	_	Power supply terminal (for AUX)
80	SRAMVSS0	_	Ground terminal (for AUX)
81	SRAMVDD1	_	Power supply terminal (for AUX)
82	SRAMVSS1	_	Ground terminal (for AUX)
83	EBIFVDD0	_	Power supply terminal (for interface circuit)
84	EBIFVSS0		Ground terminal (for interface circuit)
85	EBIFVDD1		Power supply terminal (for interface circuit)
86	EBIFVSS1	_	Ground terminal (for interface circuit)
87	EBIFVDD2		Power supply terminal (for interface circuit)
88	EBIFVSS2	_	Ground terminal (for interface circuit)
89	EBIFVDD3		Power supply terminal (for interface circuit)
90	EBIFVSS3		Ground terminal (for interface circuit)
91	EBIFVDD4		Power supply terminal (for interface circuit)
92	EBIFVSS4		Ground terminal (for interface circuit)
93	EBIFVDD5		Power supply terminal (for interface circuit)
94	EBIFVSS5		Ground terminal (for interface circuit)
95	EBIFVDD6		Power supply terminal (for interface circuit)
96	EBIFVSS6		Ground terminal (for interface circuit)
97	EBIFVDD7		Power supply terminal (for interface circuit)
98	EBIFVSS7		Ground terminal (for interface circuit)
99	ASYO	0	Playback EFM duplex signal output
100	ASYI	I	Playback EFM comparator slice level input
100	RFI	I	Playback EFM RF signal input from the RF amplifier
101	KFI	1	1 rayback Er M. 21 Strat inhar nom me kr. amhimei

Pin No.	Pin Name	I/O	Description
102	PCO	0	Phase comparison output terminal for the playback EFM system master PLL
103	FILI	I	Filter input terminal for the playback EFM system master PLL
104	FILO	0	Filter output terminal for the playback EFM system master PLL
105	CLTV	I	Internal VCO control voltage input terminal for the playback EFM system master PLL
106	PEAK	I	Peak hold signal input of the light amount signal (RF/ABCD) the RF amplifier
107	ВОТМ	I	Bottom hold signal input of the light amount signal (RF/ABCD) the RF amplifier
108	ABCD	I	Light amount signal (ABCD) input from the RF amplifier
109	FE	I	Focus error signal input from the RF amplifier
110	VC	I	Middle point voltage input from the RF amplifier
111	ADIO	0	Monitor output terminal of A/D converter input signal Not used
112	ADRB	I	A/D converter the lower limit voltage input terminal
113	SE	I	Sled error signal input from the RF amplifier
114	TE	I	Tracking error signal input from the RF amplifier
115	AUX1	I	Auxiliary A/D input terminal
116	ADRT	I	The upper limit voltage of A/D converter input terminal Not used
117	DCHG		Connecting terminal with the analog power supply of low impedance
118	APC	I	Error signal input for the laser automatic power control
119	ADC1EXTC		Connection terminal for an external capacitor
120	D_VREGO	I	Voltage sensibility of regulator for class-D amplifier Not used
121	VB_MON	I	Unregulated power supply voltage monitoring terminal
122	CHG_MON	I	Charge or discharge current monitoring terminal Not used
123	VREF_MON	I	Reference voltage input terminal
124	SET_KEY_1	I	Front panel key input terminal
125	SET_KEY_2	I	Front panel key input terminal
126	DCIN_DET	I	DC input voltage for battery charge monitoring terminal Not used
127	HIDC_MON	I	High DC voltage monitoring terminal
128	WK_DET	I	Panel key input for wake-up
129	VBUS_MON	I	USB power supply voltage monitoring terminal
130	BATT_MINUS _MON	I	Voltage monitoring terminal for the minus terminal of rechargeable battery
131	RMC_KEY	I	Remote commander key input terminal
132	RST_CONT	0	System reset signal output to the power control IC
133	REC_KEY /DOWNLOAD	Ι	DOWNLOAD key input terminal
134	RADIO_ON	I	Radio on detection input from the remote commander jack
135	HALF_LOCK_ SW /OPEN_SW	I	Front panel open switch detection terminal
136	XRST	I	System reset signal input from the power control IC
137	PLL2EXTCI	I	Connection terminal for an external capacitor
138	PLL2EXTCO	О	Connection terminal for an external capacitor
139	PLL3EXTCI	I	Connection terminal for an external capacitor
140	PLL3EXTCO	О	Connection terminal for an external capacitor
141	DACVREFH	I	Reference voltage input terminal
142	APCREF_DA	О	Reference voltage output terminal
143	ADC3VREFH	I	Reference voltage input terminal
144	ADC3EXTC	_	Connection terminal for an external capacitor
145	VIN	I	RF signal input from the RF amplifier

Pin No.	Pin Name	I/O	Description
146	VREFL	I	Reference voltage terminal connected to the capacitor (for the built-in D/A converter L-CH)
147	AOUTL	0	Built-in D/A converter L-CH signal output
148	AOUTR	О	Built-in D/A converter R-CH signal output
149	VREFR	I	Reference voltage terminal connected to the capacitor (for the built-in D/A converter R-CH)
150	DCLSOUTR	О	PWM modulator signal output for the class-D headphone amplifier Not used
151	DCLSOUTL	0	PWM modulator signal output for the class-D headphone amplifier Not used
152	RTCK		Not used
153	ADFG	I	ADIP duplex FM signal (22.05±1kHz) input from the RF amplifier
154	TRDR	О	Tracking servo drive PWM signal output (–) to the coil driver
155	TFDR	О	Tracking servo drive PWM signal output (+) to the coil driver
156	FFDR	О	Focus servo drive PWM signal output (+) to the coil driver
157	FRDR	О	Focus servo drive PWM signal output (–) to the coil driver
158	FS4	0	176.4 kHz clock signal output
159	SFDR	О	Sled servo drive PWM signal output to the motor driver
160	SPRD	О	Spindle motor drive control signal output (U) to the motor driver
161	SPFD	О	Spindle servo drive PWM signal output to the motor driver
162	SPDV	О	Spindle motor drive control signal output (V) to the motor driver
163	SPDW	О	Spindle motor drive control signal output (W) to the motor driver
164	SPCU	I	Spindle motor drive comparison signal input (U) from the motor driver
165	SPCV	I	Spindle motor drive comparison signal input (V) from the motor driver
166	SPCW	I	Spindle motor drive comparison signal input (W) from the motor driver
167	SLDV	О	Sled motor drive control signal output (V) to the motor driver
168	SLDW	О	Sled motor drive control signal output (W) to the motor driver
169	SLCU	I	Sled motor drive comparison signal input (U) from the motor driver
170	SLCV	I	Sled motor drive comparison signal input (V) from the motor driver
171	SLCW	I	Sled motor drive comparison signal input (W) from the motor driver
172	SRDR	О	Sled motor drive control signal output (U) to the motor driver
173	DIN	I	Digital audio signal input terminal
174	FS256_OUT	О	11.2896 MHz clock output
175	CHOPPERCLK	О	Clock signal output for chopper
176 to 179	MNT0 to MNT3	О	Monitor output for DSP
180	OFTRK	I/O	Tracking signal input/output for MD3
181	RECP	О	Laser power changeover signal output
182	EFMO	О	EFM encode data output for the record
183	PAUSE_KEY	I	Pause key input terminal
184	PROTECT	I	Recording protector detection input for normal disc
185	OPT_DET	I	Optical digital input plug detection input terminal "H": optical in
186	XJACK_DET	I	Line input plug detection input terminal "L": plug in
187	XMIC_DET	I	Microphone input plug detection input terminal "L": plug in
188	OPEN_CLOSE _SW	I	Open switch input terminal
189	XCS_ADC	О	Chip select signal output for A/D converter
190	XPD_ADC	О	Power control signal output for A/D converter
191	NC	_	Not used
192	XRST_LCD	О	Reset signal output for the LCD module
193	USB_WAKE	I	System wake up signal input by USB connect
194	A7CAL_SW	O	A7 offset voltage CAL on/off control signal output terminal Not used

195			Description
-/-	SI0	I	Serial data input from the EEPROM
196	SO0	0	Serial data output to the EEPROM, A/D converter and controllers
197	SCK0	0	Serial clock output to the EEPROM, A/D converter and controllers
198	XGUM_ON	I	Rechargeable battery detection signal input terminal Not used
199	BEEP	0	Beep sound control signal output to the headphone amplifier
200	XOPT_CTL	0	Power supply on/off control signal output for the optical input jack
201	LAM_REQCHK	I	LAM power check terminal Not used
202	LAM_SPREQ	0	LAM force stop request signal output Not used
202		0	LAM force stop request signal output Two used
203	REC_LED /ACCESS_LED	О	REC or Access LED drive signal output terminal Not used
204	MDVCC_CTL	О	Power supply control signal output for the OP modulation
205	VBUS_VB_CTL	О	USB power supply control signal output terminal
206	LAM_NAME	О	LAM name data request signal output terminal Not used
207	DRAM_ALONE	О	Self-refresh signal output for internal D-RAM
208	PF0	_	Not used
209	PF1/S0DO	О	Connect to the optical pick-up block
210	PF2/S1DO	О	Connect to the optical pick-up block
211	PF3/RTG3	О	Connect to the headphone amplifier
212	XMUTE /MUTE	О	Muting on/off control signal output terminal
213	SI1	I	Serial data input from the LCD module
214	SO1	О	Serial data output to the LCD module
215	SCK1	I/O	Serial data transfer clock signal input/output terminal with the LCD module
216	SLD_MON	I	Sled servo monitoring terminal
217	AOUT_SEL	О	Headphone/line output switching terminal Not used
218	YUZU_SLEEP	О	Chip enable output to the power control IC
219	FFCLR	О	Power on/off control signal output for FCRAM (internal RAM)
220	CHGI_CTL1	О	Charge current limiter control signal output at the time of DC adaptor use "L": charge Not used
221	CHGI_CTL2	О	Charge current control signal output terminal "L": low current charge
222	CHGI_CTL3	О	Charge current control signal output terminal "L": low current charge
223	SLBUSY	I	Receive signal monitoring terminal for sled command
224	XTEST	I	Terminal for the test mode setting (normally open) "L": test mode
225	XRF_RST	О	Reset signal output to the RF amplifier
226	VREC_SEL	0	VREC start-up timing control signal output terminal
227	XHOLD_SW	I	HOLD switch detection input terminal
228	T_MARK_SW	I	Track mark switch input terminal Not used
229	XRST2_DET	I	Reset signal input from the power control IC
230	CHGI_SEL	0	Charge/discharge control signal output for current sense amplifier Not used
231	RECP_MON	I	Laser power changeover signal monitoring terminal
232	SPDL_MON	I	Spindle servo monitoring terminal
233	XCS_PWR_IC	0	Chip select signal output to the power control IC
234	RXD	I	Not used
235	TXD	0	Not used
236	XCS_LCD	0	Chip select signal output to the LCD module
237	CC_CTL /VI_CTL	0	Constant current circuit control signal output terminal

Pin No.	Pin Name	I/O	Description
238	XRST_MTR _DRV	О	Reset signal output to the motor driver
239	XCS_NV	О	Chip select signal output to the EEPROM
240	CHG_PWM	О	Charge current or voltage control signal output terminal
241	IAMP_CAL	О	Offset signal output of current sense amplifier Not used
242	NC	_	Not used
243	D_VCONT _PWM	О	For voltage control signal output terminal for class-D amplifier Not used
244	CHG_OPR_LED	О	Charge indication LED drive signal output terminal Not used
245	XCS_REC_DRV	О	Chip select signal output to the over write head driver
246	GND_SW	О	Ground line switching signal output terminal
247	CS_RTC	О	Chip select signal output for real time clock Not used
248	JOG_A	I	Jog dial pulse input terminal
249	JOG_B	I	Jog dial pulse input terminal
250	VBUS_DET	I	USB power supply voltage detection terminal
251	SSB_DATA	I/O	SSB data input/output with the RF amplifier
252	SSB_CLK	О	SSB clock output to the RF amplifier
253	HIMD_ PROTECT	I	Recording protector detection input for Hi-MD disc
254	LDPEN	О	Pulse/DC light-emit switching signal output terminal
255	CHG_TYPE2	О	Battery charge control signal output terminal "H": charging
256	DRAM_HOLD _DET	I	Detection terminal for internal D-RAM power supply information keeping
257	DRAM_VDD _CLR	О	Internal D-RAM power latch clear signal output for quick mode sleep
258	AD2ENDF	I	Monitoring terminal for flag of servo signal A/D measuring finish
259	TEST	_	Not used
260	SRAM_MODE	I	Not used
261	HSALF	I	Not used
262 to 271	TIGER_MON0 to TIGER_MON9	О	Trigger monitoring terminal output clock=18.5 MHz
272	XLSRCK	О	Pulse output for laser strobe recording
273	TAT	_	Not used
274	TAN	_	Not used
275	NAR		Not used
276	IDO		Not used
277	SAK	_	Not used
278	LRCKI	I	L/R sampling clock signal input terminal for PCM data interface Not used
279	XBCKI	I	Bit clock signal input terminal for the PCM data interface Not used
280	DATAI	I	Serial clock signal input terminal for the PCM data interface Not used
281	SI3	I	Serial data input for LAM microcomputer communication Not used
282	SO3	О	Serial data output for LAM microcomputer communication Not used
283	SCK3	О	Serial data transfer clock signal output for LAM microcomputer communication Not used
284	SI4	I	Data input from ATRAC3 plus encoder communication Not used
285	SO4	О	Data output for ATRAC3 plus encoder communication Not used
286	SCK4	О	Clock signal output for ATRAC3 plus encoder communication Not used
287	SCS3	О	Chip select signal output for LAM microcomputer communication Not used

Pin No.	Pin Name	I/O	Description				
288	SCS4	О	Chip select signal output for ATRAC3 plus encoder communication Not used				
289	HI_Z_SLD	О	Standby signal output terminal for the sled motor				
290	HI_Z_SPDL	О	Standby signal output terminal for the spindle motor				
291 to 294	SET_CODE0 to SET_CODE3	I	Setting terminal for the destination				
295	D_EN1	О	Control signal output for class-D amplifier Not used				
296	D_EN2	O	Control signal output for class-D amplifier Not used				
297	D_ENVG	O	Enable/disable switching control terminal for class-D amplifier booster circuit Not used				
298	DADT	О	Audio data output terminal Not used				
299	PWM_L1	О	LC drive PWM output terminal				
300	PWM_L2	О	LC drive PWM output terminal				
301	I2C 1	_	Open drain for IIC				
302	I2C 2	_	Open drain for IIC				
303, 304	TEST	_	Not used				
305	CLKIN2	I	Clock signal input terminal (13.5 MHz or 27 MHz) Not used				
306	FS256	О	Master clock signal (256Fs=11.2896 MHz) output to A/D converter				
307	ADDT	I	Data input from A/D converter				
308	LRCK	О	L/R sampling clock signal (44.1kHz) output to external A/D converter				
309	XBCK	О	Bit clock (2.8224 MHz) output to the external A/D converter				
310	OSCI	I	Main system clock input terminal (22.5792 MHz)				
311	OSCO	О	Main system clock output terminal (22.5792 MHz)				
312	FS512	О	Clock signal output for class-D amplifier Not used				
313	DTCK	I/O	TSB master data clock input/output or SSB data input/output				
314	UDP	I/O	USB data (+) input/output terminal				
315	UDM	I/O	USB data (-) input/output terminal				
316	USBHOLD	I	USB hold signal input terminal				
317	SUSPEND	О	USB suspend signal output				
318	UPUEN	О	USB pull-up resistor connection control output terminal				
319	UOSCI	I	Resonator (48MHz) connection terminal for the USB oscillation circuit				
320	UOSCO	О	Resonator (48MHz) connection terminal for the USB oscillation circuit				
321 to 325	NC	_	Not used				

SECTION 7 EXPLODED VIEWS

NOTE:

 -XX and -X mean standardized parts, so they may have some difference from the original one.

KNOB, BALANCE (WHITE) . . . (RED)

 Color Indication of Appearance Parts Example:

Parts Color Cabinet's Color

 \uparrow

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

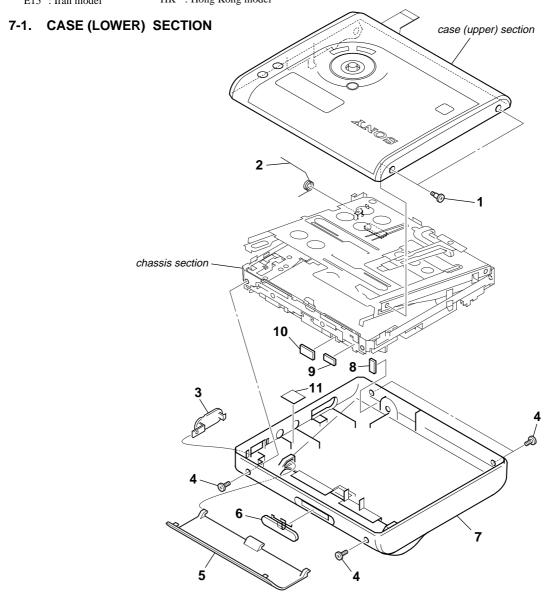
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

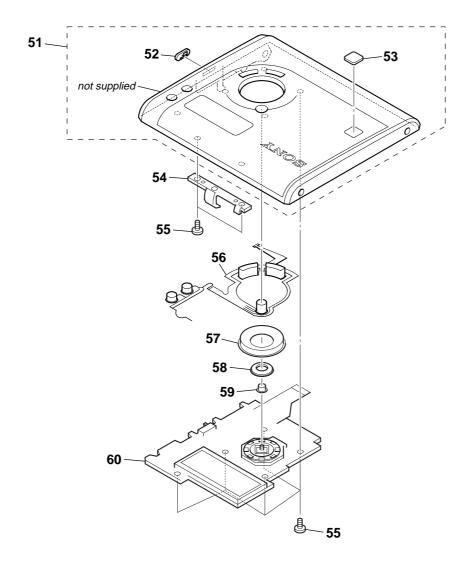
• Abbreviation

AUS : Australian model E18 : 100 V - 240 V AC area in E model JE : Tourist model CH : Chinese model E91 : 220 V area in E model KR : Korean model CND: Canadian model EE : East Europian model MX : Mexican model E15 : Iran model HK : Hong Kong model



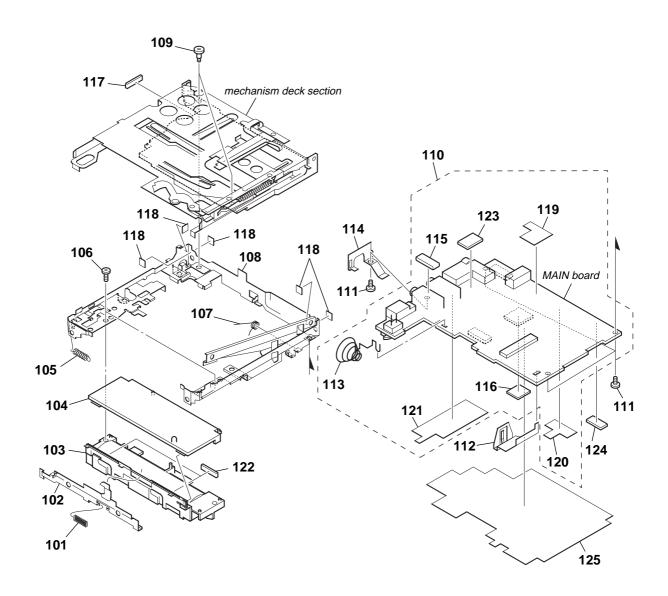
Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
1	3-241-529-01	SCREW, STEP		6	3-266-206-21	KNOB (OPEN) (for BLUE) (NH700)	
2	3-266-200-01	SPRING (L), TORSION COIL		6	3-266-206-41		
3	3-266-207-01	CAP (USB)		7	3-266-205-01	CASE (LOWER) (for SILVER) (NH700)	
4	3-234-449-17	SCREW (M1.4) (NHF800)		7	3-266-205-11	CASE (LOWER) (for BLUE) (NH700)	
4	3-234-449-19	SCREW (M1.4) (NH700)		7	3-266-205-31	CASE (LOWER) (NHF800)	
5	3-266-208-01	LID, BATTERY CASE (for SILVER) (NH	700)	8	3-242-558-01	SPACER (LINE IN)	
5	3-266-208-11	LID, BATTERY CASE (for BLUE) (NH70	00)	9	2-190-583-01	SPACER (BATT CASE)	
5	3-266-208-31	LID, BATTERY CASE (NHF800)		10	2-190-583-11	SPACER (BATT CASE)	
6	3-266-206-01	KNOB (OPEN) (for SILVER) (NH700)		11	2-055-327-01	LEAF (LOWER), COPPER	

7-2. CASE (UPPER) SECTION



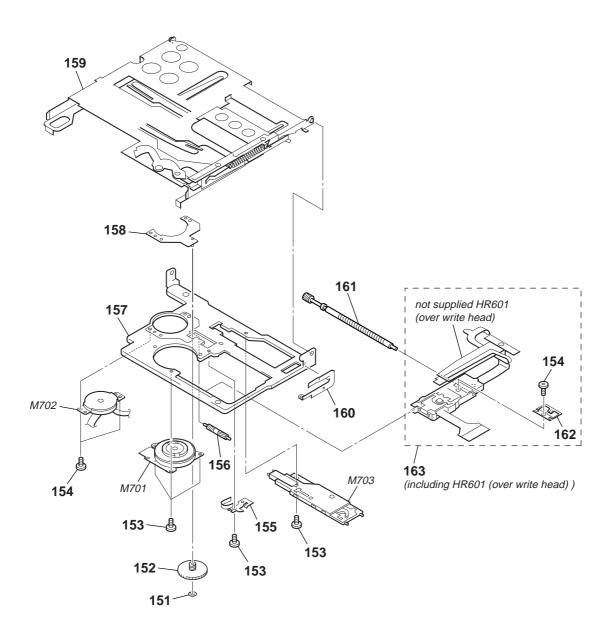
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
51	X-2023-315-1	CASE (UPPER) (S) SUB ASSY (for SII	LVER)	53	3-264-154-01	BADGE (HI-MD)	
			(NH700)	54	3-266-189-01	OPEN LOCKER	
51	X-2023-316-1	CASE (UPPER) (L) SUB ASSY (for BL	UE)	55	3-254-014-01	SCREW	
			(NH700)	56	3-266-190-01	BUTTON (CONTROL) (NAVI/-MENU.	GROUP.
51	X-2023-317-1	CASE (UPPER) (2BAND) SUB ASSY				■. II. T MARK/I	REC (+ ▶))
		(NHF800: E	XCEPT US)	57	3-266-193-01	KNOB (ROTARY)	
51	X-2023-318-1	CASE (UPPER) (4BAND) SUB ASSY					
		(NI	HF800: US)	58	3-266-192-01	ESCUTCHEON (5 DIRECTION)	
52	3-249-687-41	KNOB (HOLD) (for SILVER) (NH700)				(V0L +. ►►I. V	0L –. I≪ (
				59	3-266-191-01	KNOB (5 DIRECTION) (► ENT)	
52	3-249-687-51	KNOB (HOLD) (for BLUE) (NH700)		60	1-805-514-11	LCD MODULE	
52	3-249-687-71	KNOB (HOLD) (NHF800)					

7-3. CHASSIS SECTION



Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
101	3-266-202-01	SPRING (OPEN), COMPRESSION COI	L	110	X-2023-420-1	MAIN BOARD, COMPLETE (for SE	RVICE)
102	3-266-197-01	OPEN SLÌDER				(NHI	F800: É15, HK)
103	3-266-196-01	CASE, BATTERY		110	X-2023-421-1	MAIN BOARD, COMPLETE (for SE	RVICE)
104	3-266-194-01	MD STANDARD PIN				(NHF800	0: AEP, UK, EE)
105	3-266-201-01	SPRING (R), EXTENSION		111	3-238-876-04	SCREW (M1.4), TOOTHED LOCK	
				112	3-266-204-01	TERMINAL (+), BATTERY	
106	3-254-003-01	SCREW		113	3-266-203-02	TERMINAL (–), BATTERY	
107	3-266-199-01	SPRING (R), TORSION COIL					
108	X-3385-056-1	CHASSIS ASSY, SET		114	2-148-293-01	SPRING (USB), LEAF	
109	3-246-996-01	SCREW (MD), STEP		115	3-242-558-01	SPACER (LINE IN)	
110	X-2023-415-1	MAIN BOARD, COMPLETE (for SERVI	,	116	1-400-711-11	FILTER, EMI	
		(NH700: CND,	, MX, AUS)	117	2-178-287-01	SHEET (HP)	
				118	2-179-912-01	SHEET (CHASSIS)	
110	X-2023-416-1	MAIN BOARD, COMPLETE (for SERVI	,				
		(NH700: E18, E91, HK, k	(R, CH, JE)	119	2-177-905-01	SHEET (EMC H BRIDGE)	
110	X-2023-417-1	MAIN BOARD, COMPLETE (for SERVI	CE)	120	2-177-906-01	SHEET (EMC YUZU)	
		(NH700: AI	EP, UK, EE)	121	2-187-174-01	SHEET (EMC JACK)	
110	X-2023-418-1	MAIN BOARD, COMPLETE (for SERVI	CE)	122	2-179-913-01	SHEET (CASE BATTERY)	
		(NF	HF800: US)	123	2-178-288-01	CUSHION (HP)	
110	X-2023-419-1	MAIN BOARD, COMPLETE (for SERVI	CE)				
		(NHF800:	CND, AUS)	124	2-178-324-01	CUSHION (RODEO)	
				125	2-188-045-01	SHEET (EMC)	

MECHANISM DECK SECTION (MT-MZNH900-181)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified. Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
151	3-338-645-31	WASHER (0.8-2.5)		160	3-263-453-01	PLATE, RATCHET	
152	3-263-454-01	GEAR (BSA)		161	X-2023-272-1	LEAD SCREW SERVICE ASSY	
153	3-248-370-01	SCREW, SELF TAP		162	3-244-879-01	SPRING, RACK	
154	3-225-996-17	SCREW (M1.4) (EG), PRECISION PAN		163 △	X-2021-785-1	OP SERVICE ASSY (ABX-U)	
155	3-244-880-01	SPRING, THRUST RETAINER				(including HR601(OVER V	VRITE HEAD))
				M701	8-835-782-12	MOTOR, DC SSM18D/C-NP (SPINI	DLE)
156	3-263-455-01	GEAR (SB)					
157	3-259-972-22	CHASSIS (REC)		M702	1-787-143-11	MOTOR, DC (SLED)	
158	X-3384-651-2	BASE ASSY, MOTOR		M703	1-477-519-21	MOTOR UNIT, DC	
159	X-3384-650-1	HOLDER ASSY				(OVER WRITE HEA	AD UP/DOWN)

SECTION 8 ELECTRICAL PARTS LIST

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

AUS : Australian model

F: nonflammable

Abbreviation

METAL OXIDE: Metal oxide-film resistor.

E15

: Iran model

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

EE

: East Europian model

SEMICONDUCTORS

In each case, u: μ , for example: $\begin{array}{ll} uA... & : \mu A... \\ uPB... & : \mu PB... \end{array}$ $uPA...: \mu PA...$ $uPC...: \mu PC...$

 $uPD...: \mu PD...$

CAPACITORS uF: μF

COILS uH: μH

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

CH CND	: Chinese model : Canadian model	E18 : 1	00 V - 240 \ 20 V area in		a in E model l	HK JE	: Hong Kong n : Tourist model	nodel KR	: Korear : Mexica	model an model	
Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
	X-2023-415-1	MAIN BOARD, CO)MPI FTF (fc	or SERVI	CF)	C253	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
	X 2020 110 1		`		MX, AUS)	0200		02.11.11.10 0.111			(CEPT US)
	X-2023-416-1	- ,)MPLETE (fo 700: E18, E9			C254	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V ´
	X-2023-417-1	MAIN BOARD, CO				C260	1-137-859-11	TANTALUM CHIP	220uF	20%	4V
			(N	H700: AE	P, UK, EE)	C302	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
	X-2023-418-1	MAIN BOARD, CO	OMPLETE (fo	or SERVI	CE) (US)	C303	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	X-2023-419-1	MAIN BOARD, CO	OMPLETE (fo	or SERVI	CE)	C304	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
			(1)	IHF800: (CND, AUS)	C305	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	X-2023-420-1	MAIN BOARD, CO	OMPLETE (fo	or SERVI	CE)						
					: HK, E15)	C306	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	X-2023-421-1	MAIN BOARD, CO				C308		CERAMIC CHIP	0.1uF	10%	10V
			`	1F800: AE	P, UK, EE)	C310	1-135-259-11	TANTALUM CHIP		20%	6.3V
		*******	*****			C311	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C312	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
	1-400-711-11	,									
		SPACER (LINE IN				C313	1-100-539-11	TANTALUM CHIP		20%	6.3V
	3-266-203-02	TERMINAL (-), B	ATTERY			C314	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
		0				C315	1-165-851-91	TANTALUM CHIP		20%	6.3V
		< CAPACITOR >				C316	1-119-750-11	TANTALUM CHIP		20%	6.3V
0404	4 404 074 44	0504440 01110	10005	5 0/	501	C318	1-135-149-21	TANTALUM CHIP	2.2uF	10%	10V
C101	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	0010		0554440 01115	0.4.5	100/	4014
C102		CERAMIC CHIP	2.2uF	10%	6.3V	C319	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C104		CERAMIC CHIP	0.0022uF	10%	50V	C320	1-135-149-21	TANTALUM CHIP		10%	10V
C105		CERAMIC CHIP	0.1uF	10%	10V	C321	1-100-539-11	TANTALUM CHIP		20%	6.3V
C106	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C322	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C107	1 101 000 11	TANTALUM CHIP	47E	20%	4V	C323	1-135-259-11	TANTALUM CHIP	TOUF	20%	6.3V
C107		TANTALUM CHIP		20%	10V	C324	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C151		CERAMIC CHIP	0.0047uF	10%	16V	C325			0.1uF	10%	10V 10V
C151	1-164-939-11		0.0047ul 0.0022uF	10%	50V	C327		CERAMIC CHIP	1uF	10%	6.3V
C153		CERAMIC CHIP	1uF	10%	6.3V	C328		CERAMIC CHIP	1uF	10%	6.3V
0100	1 120 007 11	OLITAWIO OTIII	Tui	10 /0	(US)	C351		CERAMIC CHIP	1uF	10%	6.3V
					(00)	0001	1 120 007 11	OLITAWIO OTIII	Tui	10 /0	0.0 V
C153	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V	C352	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V
					(CEPT US)	C353	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C154	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C354	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C160		TANTALUM CHIP		20%	4V	C355	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C201	1-164-874-11		100PF	5%	50V	C356	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C202	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V						
						C361		CERAMIC CHIP		10%	16V
C204		CERAMIC CHIP		10%	50V	C363		CERAMIC CHIP	0.1uF	10%	10V
C205		CERAMIC CHIP	0.1uF	10%	10V	C364			0.1uF	10%	10V
C206		CERAMIC CHIP	0.001uF	10%	50V	C402		TANTALUM CHIP			5V
C207		TANTALUM CHIP		20%	4V	C403	1-100-609-11	TANTALUM CHIP	220uF		5V
C208	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V	C406	1_195_777 11	CERAMIC CHIP	0.1uF	10%	10V
C251	1-164-041-11	CERAMIC CHIP	0.0047uF	10%	16V	C406		CERAMIC CHIP	0.1uF 0.1uF	10%	10V 10V
C251	1-164-939-11		0.0047uF 0.0022uF		50V	C407			0.1uF	10%	10V 10V
C252		CERAMIC CHIP	1uF	10%	6.3V	C408		TANTALUM CHIP		20%	16V
0200	1 120-001-11	OLITAWIO OTHE	ıuı	10 /0	(US)	C411		CERAMIC CHIP	0.1uF	10%	10V 10V
					(00)	0712	1 120 111-11	OLITAWIO OTTI	v. rui	10/0	101

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
C415	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C555	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C416	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C556	1-135-210-11	TANTALUM CHIP		20%	10V
C419	1-125-777-11		0.1uF	10%	10V 10V	0330	1-133-210-11	TANTALUM GITT	4.7 ui	20 /0	100
						0557	1 105 777 11	CEDAMIC CUID	0.1	100/	101/
C420	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C557	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C421	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C558	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
						C559	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C423	1-100-609-11	TANTALUM CHIP			5V	C560	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C424	1-100-609-11	TANTALUM CHIP	220uF		5V	C561	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C425	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C426	1-119-751-11	TANTALUM CHIP	22uF	20%	16V	C562	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C427	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C564	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
0	20	02	0	. 0 / 0		C565	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C429	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C566	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C430	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C567	1-135-210-11	TANTALUM CHIP		20%	10V
						0307	1-133-210-11	TAINTALUIVI CHIF	4.7 ur	20 /0	100
C434	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	0500		0554440 01115	0.04 5	400/	4017
C438	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C568	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C452	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C569	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C570	1-165-847-91	TANTALUM CHIP	4.7uF	20%	10V
C453	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C573	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C455	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	C574	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C456	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V						
C457	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C601	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
	1-107-020-11	CERAMIC CHIP	0.1uF	10%	10V 10V	C602	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C458	1-120-777-11	CENAIVIIC CHIP	U. TUF	1070	100						
						C604	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C459	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C607	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C460	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C609	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C461	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C476	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C611	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C478	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C612	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
00		02	0.0.4.	. 0 / 0		C613	1-119-750-11	TANTALUM CHIP		20%	6.3V
C479	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C614	1-119-750-11	TANTALUM CHIP		20%	6.3V
C480	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V	C616	1-165-897-11	TANTALUM CHIP	22uF	20%	10V
C481	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V						
C511	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C619	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C513	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C620	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
						C621	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C515	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C622	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C516	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C625	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C517	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	0020	20	OLI WINIO OTTI	0.141	1070	101
C518	1-135-210-11	TANTALUM CHIP		20%	10V 10V	C627	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C519	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C628	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
						C630	1-125-777-11		0.1uF	10%	10V
C520		CERAMIC CHIP		10%	10V	C633		CERAMIC CHIP	0.01uF	10%	16V
C521	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V	C634	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C522	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V						
C523	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C635	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C524	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C636	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
002.	02 0.0	02	0.0.4.	. 0 / 0		C637	1-165-851-91	TANTALUM CHIP		20%	6.3V
C525	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C638	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C526	1-164-874-11		100PF	5%	50V	C641	1-164-943-11	CERAMIC CHIP	0.0022uF 0.01uF	10%	16V
						0041	1-104-943-11	CENAIVIIC CHIP	U.UTUF	1070	101
C527	1-125-777-11		0.1uF	10%	10V	0040	4 440 000 44	0554440 01115	0047.5	400/	4017
C528	1-125-777-11		0.1uF	10%	10V	C642	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C529	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C643	1-100-743-91	CERAMIC CHIP	2.2uF	20%	16V
						C644	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C530	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C645	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C531	1-164-943-11		0.01uF	10%	16V	C646	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C533	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	00.0	1 110 020 11	OLI WINIO OTTI	0.0 17 01	1070	101
C536	1-104-943-11		0.01uF 0.022uF	10%	16V	C648	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C537	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C649	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C650	1-165-851-91	TANTALUM CHIP		20%	6.3V
C538	1-164-937-11		0.001uF	10%	50V	C652	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V
C539	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C653	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V
C545	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C547	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	C658	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C550	1-119-923-11		0.047uF	10%	10V	C660	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
0330	1-119-920-11	OLI MINIO OTTIF	0.0 1 / ui	10/0	101			CERAMIC CHIP	2.2uF	10%	6.3V
0550	1 104 040 11	CEDAMIO OLUB	0.04	100/	101/	C661	1-165-884-11				
C552	1-164-943-11		0.01uF	10%	16V	C666	1-127-820-11	CERAMIC CHIP	4.7uF	10%	16V
C553	1-135-210-11			20%	10V	C668	1-125-83/-11	CERAMIC CHIP	1uF	10%	6.3V
C554	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	1					

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	<u>Description</u>			Remark
C669	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C857	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C671	1-125-037-11	CERAMIC CHIP	0.1uF	10%	10V	C858	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C672	1-123-777-11		4.7uF		16V	0000	1-125-111-11	GENAIVIIG GHIF	U.TUF	10 /0	100
				10%		0050	1 105 777 11	OEDAMIO OLUD	0.4	100/	101/
C673	1-125-777-11		0.1uF	10%	10V	C859	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C674	1-112-010-11	CAP, CHIP MICA	33PF	5%	100V	C860	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C861	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C675	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C864	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C676	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C883	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V
C677	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C701	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	C884	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V
C702	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	C885	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
						C886	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C703	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V	C887	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C705	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C891	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C706	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V						
C707	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C892	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C708	1-107-819-11		0.022uF	10%	16V	C895	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
0700	1 107 013 11	OLITAWIO OTIII	0.02241	10 /0	101	C901	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C709	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C902	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C710	1-104-343-11	CERAMIC CHIP	0.01ui 0.022uF	10%	16V	C903			0.1ul 0.01uF		16V
C710	1-107-619-11	CERAMIC CHIP	0.022ur 0.1uF		10V 10V	0903	1-164-943-11	CERAMIC CHIP	U.UTUF	10%	100
				10%		0000	1 100 050 11	OEDAMIO OLUD	4	000/	101
C713	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C906	1-100-352-11	CERAMIC CHIP	1uF	20%	16V
C714	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C908	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C909	1-119-751-11	TANTALUM CHIP		20%	16V
C715	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C915	1-165-851-91	TANTALUM CHIP		20%	6.3V
C716	1-125-777-11		0.1uF	10%	10V	C916	1-165-851-91	TANTALUM CHIP	10uF	20%	6.3V
C717	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C801	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V	C918	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C802	1-164-847-11	CERAMIC CHIP	7PF	0.5PF	50V	C919	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
						C920	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C803	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C922	1-128-964-11	TANTALUM CHIP	100uF	20%	6.3V
C804	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C923	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C805	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	0020				2070	0.01
C808	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C924	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V
C809	1-125-777-11		0.1uF	10%	10V	C926	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
0005	1 123 777 11	OLITAWIO OTIII	o. rui	10 /0	100	C927	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C810	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C928	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	1-125-777-11		0.1uF	10%	10V 10V	C928			0.001uF		
C811						6929	1-164-937-11	CERAMIC CHIP	U.UUTUF	10%	50V
C812	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	0004	4 405 004 44	OEDAMAO OLUB	00.5	400/	0.01/
C814	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C931	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C816	1-100-539-11	TANTALUM CHIP	4/uF	20%	6.3V	C932	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
						C933	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C817		CERAMIC CHIP		10%	10V	C935		CERAMIC CHIP	2.2uF	10%	6.3V
C818		TANTALUM CHIP		20%	6.3V	C936	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C819	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V						
C820	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C937	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C821	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C939	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
						C940	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C822	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C948	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C823		CERAMIC CHIP	0.1uF	10%	10V	C954	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C827		CERAMIC CHIP	0.1uF	10%	10V						
C828		CERAMIC CHIP	0.001uF	10%	50V	C958	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C830		CERAMIC CHIP	0.001uF	10%	50V	C959	1-125-777-11		0.1uF	10%	10V
0000	1-104-337-11	OLITAWIO OTIII	0.00141	10 /0	30 V	C960	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V 10V
Cooo	1 105 007 11	CERAMIC CHIP	1E	100/	6 21/	C961					
C832			1uF	10%	6.3V	Capi	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C833		CERAMIC CHIP	1uF	10%	6.3V			0011150705			
C835		CERAMIC CHIP	0.1uF	10%	10V			< CONNECTOR >			
C836		TANTALUM CHIP		20%	6.3V						
C838	1-165-851-91	TANTALUM CHIP	10uF	20%	6.3V	CN451	1-818-190-21				₽ (USB)
						CN471	1-818-543-21	,			
C839		CERAMIC CHIP	0.1uF	10%	10V	CN501	1-818-545-21				
C843	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	CN701	1-818-540-21	CONNECTOR, FFC	/FPC (ZIF)	10P	
C845	1-100-539-11	TANTALUM CHIP	47uF	20%	6.3V						
C846		CERAMIC CHIP	0.1uF	10%	10V			< DIODE >			
C847		CERAMIC CHIP	0.1uF	10%	10V						
	- · ·		-			D151	8-719-056-72	DIODE UDZ-TE-1	7-2.4B		
C850	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	D251		DIODE UDZ-TE-1			
C853		CERAMIC CHIP	0.1uF	10%	10V	D301		DIODE MAZSO68			
C856		CERAMIC CHIP	0.1uF	10%	10V	D302		DIODE MAZS068			
0000	, , , , , , , , , , , , , , , , ,		Jui	. 5 /5		DOOL	2 0 000 04				

Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
D303	8-719-056-54	DIODE MAZS068008SO		FB452	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)	
D000	0 7 10 000 01	DIODE IVINEEOCOCOCO		FB471	1-216-864-11		
D304	8-719-056-54	DIODE MAZS068008SO		FB501	1-400-620-21	INDUCTOR, FERRITE BEAD (1005)	
D352		DIODE NNCD6.8H-T1					
D401		DIODE MA22D2800LS0		FB502	1-216-864-11		
D435		DIODE MAZS068008SO		FB503	1-216-864-11		
D436	8-719-056-54	DIODE MAZS068008SO		FB801	1-216-864-11		
D439	6-500-483-01	DIODE MA22D2800LS0		FB802 FB803	1-216-864-11	SHORT CHIP 0 INDUCTOR, FERRITE BEAD	
D439		DIODE MA22D2800LS0		1 0000	1-414-700-21	INDUCTOR, I ENTITE BEAD	
D441		DIODE MAZSO68008SO		FB807	1-216-864-11	SHORT CHIP 0	
D457		DIODE MA22D2800LS0		FB809	1-216-864-11		
D458		DIODE MA8056-L		FB810		INDUCTOR, FERRITE BEAD	
D471		DIODE MA2Z748001S0				< IC >	
D473		DIODE MAZS068008SO					
D601		DIODE MA2SD32008S0		IC301		IC AK5356VN-L	
D602		DIODE MA2Z748001S0 DIODE MA2Z748001S0		IC302 IC352		IC XC6219B212MR	
D603	0-7 19-072-27	DIODE WAZZ/4000150		IC401		IC TA2131FLG (EL) IC MM1655NCBE	
D604	6-500-483-01	DIODE MA22D2800LS0		IC401		IC NJU7008F3 (TE1)	
D605		DIODE MA2SD3000LS0		10102	0 700 002 01	10 11007 00010 (121)	
D606		DIODE MA22D1700LS0		IC471	6-705-715-01	IC XC6219B242MR	
D607	6-500-909-01	DIODE MA22D1700LS0		IC501		IC SN761059ZQLR	
D608	6-500-910-01	DIODE MA2SD3000LS0		IC502	6-706-095-01	IC R1180Q301B-TR-FA	
				IC601		IC SC901585VAR2	
D609		DIODE MA2Z748001S0		IC602	6-703-317-01	IC R1160N121B-TR-FA	
D610		DIODE MA2Z748001S0			0.700.000.04	IO VOCCORDONALD	
D611 D613		DIODE MA2Z748001S0 DIODE MA2SD32008S0		* IC603 IC604		IC XC6209B322MR IC R1180Q121C-TR-FA	
D613		DIODE MA2SD32008S0		IC605		IC TC7SL32FU (TE85R)	
D01 4	0-300-013-01	DIODE WAZODOZOOOO		IC606		IC XC61CN1702NR	
D615	6-500-909-01	DIODE MA22D1700LS0		IC607		IC XC61CN0902NR	
D616		DIODE MA22D1700LS0					
D801	8-719-072-27	DIODE MA2Z748001S0		IC701	6-704-999-01	IC BD6607KN	
D803	6-500-813-01	DIODE MA2SD32008S0		IC801		IC CXD2681-223GG	
D881	6-500-813-01	DIODE MA2SD32008S0		IC804		IC XC61CC2502NR	
				IC881		IC XC6382C251MR	
D882		DIODE MA2SD32008S0 DIODE MA2SD32008S0		IC882	6-706-094-01	IC R1180Q221B-TR-FA	
D883 D884		DIODE MA2Z748001S0		IC892	(Not cupplied)	IC HN58X2564FPIEZ	
D885		DIODE MA2Z748001S0		IC901		IC SC901584EPR2	
D902		DIODE MA2Z748001S0				IC XC61CC1702NR	
D904		DIODE MA2Z748001S0				< JACK >	
D905		DIODE MA2Z748001S0					
D906	6-500-483-01	DIODE MA22D2800LS0		J301		JACK (LINE IN (OPT))	
		< FUSE >		J302 J352		JACK (MIC (PLUG IN POWER))	
		< FUSE >		J402	1-816-954-22	JACK, DC (POLARITY UNIFIED TYPE	:)
F1	1-576-462-21	FUSE (SMD) (1.5A/63V)		0402	1 700 000 11	DAOK, DO (I OLAHITI OMITLE TITL	(DC IN 3V)
F351		FUSE (SMD) (0.25A/125V)					(20 01)
						< COIL/SHORT >	
		< FERRITE BEAD/SHORT >					
				L303	1-400-397-11		
FB1		INDUCTOR (EMI FERRITE)		L351	1-216-295-00		
FB2 FB101		INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD		L501 L502	1-216-295-00 1-400-397-11		
FB201		INDUCTOR, FERRITE BEAD		L502 L503	1-400-397-11		
FB301	1-216-864-11			LJUJ	1 700-031-11	TOUT	
1 2001	0 001 11			L504	1-400-397-11	INDUCTOR 10uH	
FB302	1-400-807-21	BEAD, FERRITE (1005)		L505	1-400-397-11		
FB303	1-400-807-21	BEAD, FERRITE (1005)		L506	1-400-397-11	INDUCTOR 10uH	
FB353		INDUCTOR, FERRITE BEAD		L507	1-400-397-11		
FB354		INDUCTOR, FERRITE BEAD		L601	1-414-398-11	INDUCTOR 10uH	
FB355	1-469-179-21	INDUCTOR, FERRITE BEAD		1.000	4 444 000 41	INDUOTOD 40 ''	
EDOEZ	1 400 000 01	INDUCTOR (EMI ECRRITE)		L603	1-414-398-11 1-416-669-11		
FB357 FB451		INDUCTOR (EMI FERRITE) INDUCTOR (EMI FERRITE) (2012)		L605 L606	1-416-669-11		
1 0 4 0 1	1- 1 03-003-41	INDUCTOR (LIMITERINITE) (2012)		LUUU	i- 1 00-020-11	INDUCTOR TOUR	

									_ •	717 111 1
Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
	1-419-881-11	INDUCTOR	47uH		Q883	8-729-037-75	TRANSISTOR	UN9214J-(TV) CO	
L607	1-419-661-11	INDUCTOR	4.7uH		Q884	8-729-030-46	TRANSISTOR	XP4314-T	` '	
L000	1-400-402-21	INDUCTOR	4.7 ui i		Q885	6-550-353-01		SI1410EDI		
L701	1-216-295-00	SHORT CHIP	0		Q886	8-729-030-46		XP4314-TX		
L701	1-216-295-00		0		Q901	8-729-053-71	FET	TS8K1TB	`	
L801	1-400-397-11		10uH		Q301	0-129-033-11	ILI	TOOKTID		
L802	1-400-343-21	INDUCTOR	22uH		Q902	8-729-427-74	TRANSISTOR	XP4601		
L803	1-216-001-00		10 5%	1/10W	Q302	0-125-421-14	MANGIOTON	AF 400 I		
L003	1-210-001-00	NLO-OHIF	10 370	1/1000			< RESISTOR >			
L804	1-216-001-00	RES-CHIP	10 5%	1/10W			(NEOIOTOTY			
L805	1-216-295-00		0	1/1000	R101	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
L881	1-414-404-41		100uH		R103	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
L901	1-456-711-21		100uH (3.8X3.8)		R105	1-218-990-11	SHORT CHIP	0	0.5 /0	1/1000
L903		INDUCTOR	10uH		R106	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
L303	1-400-331-11	INDOOTOR	Touri		R107	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
L904	1-400-397-11	INDUCTOR	10uH		11107	1 200 7 10 11	WETAL OTH	LLIN	0.0 /0	1/ 10 00
L906	1-456-677-21	COIL, CHOKE	47uH		R151	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
L907		COIL, CHOKE	47uH		11131	1-210-301-11	ILO-OIIII	7.710	J /0	(US)
L9001		INDUCTOR	10uH		R151	1-218-965-11	RES-CHIP	10K	5%	1/16W
L9001	1-414-330-11	INDUCTOR	Touri		11131	1-210-303-11	NL3-OHIF	TUIN		XCEPT US)
		< FILTER >			R152	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
		(IILILII)			11132	1-210-337-11	ILO-OIIII	2.21		XCEPT US)
LF401	1-411-957-11	FILTER, COMMON	IMODE		R152	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
LF451		COIL. COMMON I			N 132	1-210-901-11	NEO-UNIF	4.7 K	J /0	
LF431	1-450-111-11	GOIL, GOIVIIVION I	NODE CHOKE		R153	1-218-965-11	RES-CHIP	10K	5%	(US) 1/16W
		< TRANSISTOR >			nios	1-210-905-11	NEO-UNIF	IUK	J /0	1/1000
		< INANSISTUM >			R154	1-218-965-11	RES-CHIP	10K	5%	1/16W
Q301	8-729-051-23	TDANCICTOD	2SA2018TL		R154	1-218-929-11	RES-CHIP	10	5%	1/16W
Q351	8-729-037-52				R156	1-218-961-11	RES-CHIP	4.7K		1/16W
	8-729-030-46		2SD2216J-QR (TX)	1.50	R150	1-208-683-11	METAL CHIP	4.7K 1K	5% 0.5%	1/16W 1/16W
Q352 Q353	6-550-353-01		XP4314-TX SI1410EDH-T1		R157			2.2K	0.5%	1/16W
	6-550-326-01				KIDO	1-208-691-11	METAL CHIP	Z.ZN	0.5%	1/1000
Q401	0-000-320-01	TRANSISTUR	FZT968TA		D160	1-218-990-11	SHORT CHIP	0 (EVCEDT	VED III	, EE/
0.402	6 550 353 01	ССТ	CI1./11.0EDU T1		R160			0 (EXCEPT		
Q403	6-550-353-01		SI1410EDH-T1		R160	1-208-635-11	METAL CHIP	10	0.5%	1/16W
Q406	8-729-427-74		XP4601		D101	1 000 040 11	METAL OLUD	00		EP, UK, EE)
Q407	8-729-037-75		UN9214J-(TX).SO		R161	1-208-643-11	METAL CHIP	22	0.5%	1/16W
Q432	8-729-044-57		FZT688B-TP		D400	1 010 000 11	CHODT OHID	0	(Al	EP, UK, EE)
Q433	8-729-037-52	TRANSISTUR	2SD2216J-QR (TX)	.50	R162	1-218-990-11	SHORT CHIP	0	0.50/	4/40/4/
0451	6 550 254 01	ССТ	DTOOSEDOSTD		R201	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
Q451	6-550-354-01		RTQ035P02TR		DOOG	1 000 715 11	METAL CLUD	001/	0.50/	4/40/1/
Q452	8-729-427-74		XP4601		R203	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
Q471	8-729-429-44		XP1501		R205	1-218-990-11		0	0.50/	4/40/1/
Q501	6-550-674-01		MCH6604-K-TL-E		R206	1-208-911-11		10K	0.5%	1/16W
Q502	8-729-051-23	TRANSISTUR	2SA2018TL		R207	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
0500	0 700 007 50	TDANCICTOD	00D00101 OD (TV)		R251	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
Q503	8-729-037-52		2SD2216J-QR (TX)							(US)
Q504	8-729-037-89		2SC4627J-C (TX).S	5U	DOE1	1 010 005 11	DEC CUID	101/	E0/	1/16W
Q601	6-550-357-01		CPH5614-TL-E MCH6617-TL-E		R251	1-218-965-11	KES-CHIP	10K	5%	
Q602	6-550-740-01 8-729-053-71		TS8K1TB		Pasa	1 210 057 11	DEC CHID	2 21/	5%	XCEPT US)
Q603	0-729-055-71	LEI	ISOVIID		R252	1-218-957-11	NEO-UNIP	2.2K		1/16W
Q607	0 700 027 50	TDANCICTOD	2SD2216J-QR (TX)		DOEO	1 010 061 11	DEC CHID	171/		XCEPT US) 1/16W
	8-729-037-52		\ /	1.50	R252	1-218-961-11	NEO-UNIP	4.7K	5%	
Q608	8-729-030-46		XP4314-TX		DOEO	1 010 005 11	DEC OUID	401/	F0/	(US)
Q609	6-550-859-01		NTHD4508NT1G		R253	1-218-965-11	RES-CHIP	10K	5%	1/16W
Q611	6-550-353-01		SI1410EDH-T1	,	R254	1-218-965-11	RES-CHIP	10K	5%	1/16W
Q612	8-729-049-81	FEI	SSM3K01F (TE85L)	Doce	1 010 000 11	DEO OLUB	40	F0/	4/4004/
0010	0.700.047.00	FFT	COMOVOCE (TD: C	`	R255	1-218-929-11	RES-CHIP	10	5%	1/16W
Q613	8-729-047-68		SSM3K03FE (TPL3)	R256	1-218-961-11		4.7K	5%	1/16W
Q614	8-729-427-74		XP4601		R257	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
Q615	6-550-353-01		SI1410EDH-T1		R258	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W
Q616	6-550-353-01		SI1410EDH-T1		R260	1-218-990-11	SHORT CHIP	0 (EXCEPT	AEP, UK	k, EE)
Q617	8-729-427-74	TRANSISTOR	XP4601		Boss	4 000 00= ::	NACTAL OLD	40	0.50	4400
0040	0.700.407.7:	TDANIOLOTOS	VD4004		R260	1-208-635-11	METAL CHIP	10	0.5%	1/16W
Q618	8-729-427-74		XP4601	`	D001	1 000 040 41	METAL OUR	00		EP, UK, EE)
Q801	8-729-047-68		SSM3K03FE (TPL3)	R261	1-208-643-11	METAL CHIP	22		1/16W
Q802	8-729-051-50		XP152A12C0MR		DOCC	1 010 000 11	CHODE OTHE	0	(Al	EP, UK, EE)
Q803	8-729-037-52		2SD2216J-QR (TX)	1.30	R262	1-218-990-11		0	E0/	4/4014
Q881	8-729-427-74	TRAINSISTUR	XP4601		R301	1-218-953-11	RES-CHIP	1K	5%	1/16W
					R304	1-218-977-11	RES-CHIP	100K	5%	1/16W

Ver 1.1

Ref. No. Part No. Description Part No. Description Part No. Part No. Description Part No. Society Part No. Society Part No. Society Part No. Par												
R806 1-218-941-11 R85-CHIP 100 5% 1/16W R489 1-218-990-11 SHORT CHIP 0 5% 1/16W R489 1-218-941-11 R85-CHIP 100 5% 1/16W R489 1-218-941-11 R85-CHIP 100 5% 1/16W R491 1-218-951-11 R85-CHIP 1/16W R491 1-218-961-11 R85-	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	Description			<u>Remark</u>
Radio 1-218-965-11 RES-CHIP 100 5% 1/16W R499 1-218-941-11 RES-CHIP 100 5% 1/16W R491 1-218-941-11 RES-CHIP 100 5% 1/16W R491 1-218-941-11 RES-CHIP 100 5% 1/16W R491 1-218-941-11 RES-CHIP 100 5% 1/16W R492 1-218-957-11 RES-CHIP 100 5% 1/16W R492 1-218-957-11 RES-CHIP 100 5% 1/16W R492 1-218-990-11 SHORT CHIP 0 87.5 1-218-990-11 SHORT							R485	1-218-985-11	RES-CHIP	470K	5%	1/16W
R808 1216-68-H1 SINGT CHIP 100 5% 1716W R490 1-218-941-H1 RES-CHIP 100 5% 1716W R491 1-218-941-H1 RES-CHIP 100 5% 1716W R502 1-218-957-H1 RES-CHIP 100 5% 1716W R502 1-218-957-H1 RES-CHIP 100 5% 1716W R503 1-218-957-H1 RES-CHIP 100 5% 1716W R504 1-218-957-H1 RES-CHIP 100 5% 1716W R504 1-218-957-H1 RES-CHIP 100	R305	1-218-941-11	RES-CHIP	100	5%	1/16W	R486	1-218-990-11	SHORT CHIP	0		
R809 1-216-868-11 R8-CHIP 100 5% 1716W R8-90 1-218-98-11 R8-CHIP 100 5% 1716W R8-90 1-218-95-11 R8-CHIP 100 5% 1716W R8-9	R306	1-218-965-11	RES-CHIP	10K	5%	1/16W	R489	1-218-941-11	RES-CHIP	100	5%	1/16W
R300 1-218-93-11 RES-CHIP 1K 5% 1/16W R501 1-218-95-11 RES-CHIP 10 5% 5% 1/16W R502 1-218-95-11 RES-CHIP 10 5% 5% 1/16W R503 1-218-95-11 RES-CHIP 10 5% 1/16W R504 1-218-95-11 RES-CHIP 10 5% 1/16W R505 1-218-95-11 RES-CHIP 10 5% 1/16W R504 1-218-95-11 RES-CHIP 10 5% 1/16W R505 1-218-95-11 RES-CHIP 10 1/16W R505 1-218-95-11 RES-CHIP 10 1/16W R505 1-218-95-11 RES-CHIP 10 10 1/16W R505 1-218-9	R307	1-218-941-11	RES-CHIP	100	5%	1/16W						
R310	R308	1-216-864-11	SHORT CHIP	0			R490	1-218-941-11	RES-CHIP	100	5%	1/16W
RESIDENT RESIDENT	R309	1-218-953-11	RES-CHIP	1K	5%	1/16W	R491	1-218-941-11	RES-CHIP	100	5%	1/16W
REST 1-218-99-11 RES-CHIP 10							R501	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R315	R310	1-218-953-11	RES-CHIP	1K	5%	1/16W	R502	1-218-953-11	RES-CHIP	1K	5%	1/16W
R501 1-218-990-11 SHORT CHIP 0 5% 75% 1/16W R505 1-218-99-11 RES-CHIP 10K 5% 1/16W R505 1-218-99-11 RES-CHIP 2.2K 5% 1/16W R505 1-218-99-11 RES-CHIP 2.2K 5% 1/16W R505 1-218-99-11 RES-CHIP 0 0 0 0 0 0 0 0 0	R312	1-218-929-11	RES-CHIP	10	5%	1/16W	R503	1-218-977-11	RES-CHIP	100K	5%	1/16W
R555 1-218-937-11 RES-CHIP 20K 5% 1/16W R505 1-218-929-11 RES-CHIP 10 5% 5% 5% 1/16W R508 1-218-957-11 RES-CHIP 0 0 0 0 0 0 0 0 0	R314	1-218-990-11	SHORT CHIP	0								
RSS2	R315	1-218-990-11	SHORT CHIP	0			R504	1-218-977-11	RES-CHIP	100K	5%	1/16W
R503 1-218-980-11 RES-CHIP 220K 5% 1/16W R509 1-218-990-11 SHORT CHIP 0	R351	1-218-937-11	RES-CHIP	47	5%	1/16W	R505	1-218-929-11	RES-CHIP	10	5%	1/16W
RSS3 1-218-989-11 RES-CHIP 22K 5% 1/16W RSS5 1-218-990-11 SHORT CHIP 0 RSS5 1-218-980-11 RES-CHIP 1M 5% 1/16W RSS5 1-218-980-11 SHORT CHIP 0 RSS5 1-218-990-11 SHORT CHIP 10K 5% RSS5 1-218-990-11 SHORT CHIP 10K 5% 1/16W RSS5 1-218-990-11 RES-CHIP 10K 5% RSS5 1/16W RSS5 1-218-990-11 RES-CHIP 10K 5% RSS5 1/16W RSS5							R507	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R355 1-218-99-11 RES-CHIP 10K 5% 1/16W R515 1-218-99-11 SHORT CHIP 0			RES-CHIP			1/16W	R508	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R356 1-218-98-11 RES-CHIP 10K 5% 1/16W R511 1-218-99-11 SHORT CHIP 0 R536 1-218-96-11 RES-CHIP 10K 5% 1/16W R516 1-218-96-11 RES-CHIP 10K 5% 1/16W R517 1-218-96-11 RES-CHIP 10K 5% 1/16W R517 1-218-96-11 RES-CHIP 10K 5% 1/16W R517 1-218-96-11 RES-CHIP 10K 5% 1/16W R519 1-218-96-11 RES-CHIP 10K 5% 1/16W R519 1-218-96-11 RES-CHIP 47K 5% 1/16W R520 1-218-99-11 RES-CHIP 0 1/16W R520 1-218-99-11 RES-CHIP 1/16W R520 1-218							R509	1-218-990-11	SHORT CHIP	0		
R356 1-218-97-11 RES-CHIP 100K 5% 1/16W R512 1-218-96-11 RES-CHIP 10K 5% 5% 1/16W R513 1-218-96-11 RES-CHIP 10K 5% 5% 1/16W R514 1-218-97-11 RES-CHIP 10K 5% 5% 1/16W R515 1-218-96-51 RES-CHIP 47K 5% 1/16W R516 1-218-96-51 RES-CHIP 10K 5% 1/16W R516 1-218-96-51 RES-CHIP 10K 5% 1/16W R516 1-218-96-51 RES-CHIP 10K 5% 1/16W R516 1-218-97-11 RES-CHIP 1/16W 1/16W R516 1-218-97-11 RES-CHIP 1/16W 1/16W R516 1-218-98-11 RES-CHIP 1/16W 1/16W R516 1-218-98-11 RES-CHIP 1/16W 1/16W R516 1-218-98-11 RES-CHIP 1/16W 1/16W R517 1-218-99-11 RES-CHIP 1/16W R517 1-218-99-11 RES-CHIP 1/16W R518 1-218-99-11		1-218-965-11	RES-CHIP	10K	5%	1/16W						
R358 -220-804-11 RES-CHIP 2.2M 5% 1/16W R513 -1-218-965-11 RES-CHIP 47K 5% R559 1-218-965-11 RES-CHIP 10K 5% 8759 1-218-965-11 RES-CHIP 10K 5% 1/16W R515 1-218-965-11 RES-CHIP 10K 5% 1/16W R517 1-218-965-11 RES-CHIP 4/7K 5% 1/16W R528 1-218-967-11 RES-CHIP 0 1/16W R528 1-218-968-11 RES-CHIP 1/16W	R355	1-218-989-11	RES-CHIP	1M	5%	1/16W	R511	1-218-990-11	SHORT CHIP	0		
R358 1-220-804-11 RES-CHIP 2.2M 5% 1/16W R515 1-218-965-11 RES-CHIP 10K 5% 1/16W R515 1-218-965-11 RES-CHIP 10K 5% 1/16W R516 1-218-975-11 RES-CHIP 10K 5% 1/16W R517 1-218-965-11 RES-CHIP 10K 5% 1/16W R518 1-218-975-11 RES-CHIP 10K 5% 1/16W R520 1-218-990-11 SHORT CHIP 0 1/28-955-11 RES-CHIP 1/28-95-11 RES-CHIP 1/28-95	R356	1-218-977-11	RES-CHIP	100K	5%	1/16W	R512	1-218-990-11	SHORT CHIP	0		
R359 1-218-965-11 RES-CHIP 100K 5% 1/16W R418 1-218-965-11 RES-CHIP 10K 5% 1/16W R419 1-218-965-11 RES-CHIP 10K 5% 1/16W R516 1-218-973-11 RES-CHIP 47K 5% 87K 1/16W R519 1-218-953-11 RES-CHIP 47K 5% 87K 1/16W R521 1-218-953-11 RES-CHIP 47K 5% 87K 1/16W R522 1-218-953-11 RES-CHIP 0 0 87K 1/16W R522 1-218-990-11 SHORT CHIP 0 0 87K 1/16W R523 1-218-990-11 SHORT CHIP 0 0 87K 1/16W R526 1-218-931-11 RES-CHIP 20K 5% 87K 1/16W R609 1-218-971-11 RES-CHIP 20K 5% 87K 1/16W R609 1-218-971-11 RES-CHIP 10K 5% 1/16W R609 1-218-971-11 RES-CHIP 10K 5% 1/16W R616 1-218-931-11 RES-CHIP 10K 5% 1/16W R618 1-218-971-11 RES-CHIP 10K 5% 1/16W R619 1-218-971-11 RES-CHIP 10K 5% 1/16W R621 1-218-971-11 RES-CHIP 10K 5% 1/16W R622 1-228-931-11 RES-CHIP 10K 5% 1/16W R623 1-218-931-11 RES-CHIP 10K 5% 1/16W R624 1-218-931-11 RES-CHIP 10K 5% 1/16W R624							R513	1-218-965-11	RES-CHIP	10K	5%	1/16W
R419 1-218-967-11 RES-CHIP 100K 5% 1/16W R419 1-218-965-11 RES-CHIP 4.7K 5% 1/16W R517 1-218-965-11 RES-CHIP 4.7K 5% 1/16W R517 1-218-965-11 RES-CHIP 10K 5% R420 1-218-961-11 RES-CHIP 100K 5% 1/16W R518 1-218-973-11 RES-CHIP 10K 5% R421 1-218-961-11 RES-CHIP 10W 5% 1/16W R518 1-218-953-11 RES-CHIP 1 K 5% R422 1-218-969-11 RES-CHIP 1 M 5% 1/16W R520 1-218-949-11 RES-CHIP 47K 5% R423 1-218-965-11 RES-CHIP 47K 5% 1/16W R424 1-218-957-11 RES-CHIP 4.70K 5% 1/16W R521 1-218-949-11 SHORT CHIP 0 R424 1-218-957-11 RES-CHIP 4.70K 5% 1/16W R521 1-218-949-11 SHORT CHIP 0 R521 1-218-949-11 SHORT CHIP 0 R522 1-218-949-11 SHORT CHIP 0 R523 1-218-949-11 SHORT CHIP 0 R524 1-218-945-11 RES-CHIP 2.2K 5% 1/16W R521 1-218-949-11 SHORT CHIP 0 R522 1-218-949-11 SHORT CHIP 0 R523 1-218-945-11 RES-CHIP 2.2K 5% 1/16W R524 1-218-945-11 RES-CHIP 2.2K 5% 1/16W R525 1-216-864-11 SHORT CHIP 0 R524 1-218-945-11 RES-CHIP 0.47 1/5W R525 1-216-864-11 SHORT CHIP 0 R526 1-218-945-11 RES-CHIP 2.20K 5% R546 1-218-991-11 RES-CHIP 2.20K 5% 1/16W R601 1-218-981-11 RES-CHIP 2.20K 5% R661 1-218-981-11 RES-CHIP 2.20K 5% R661 1-218-981-11 RES-CHIP 100K 5% 1/16W R603 1-218-977-11 RES-CHIP 100K 5% 1/16W R604 1-218-953-11 RES-CHIP 100K 5% 1/16W R604 1-218-953-11 RES-CHIP 10K 5% 1/16W R612 1-220-804-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 100K 5% 1/16W R621 1-244-161-11 RES-CHIP 100K 5% 1/16W R621 1-244-161-11 RES-CHIP 100K 5% 1/16W R623 1-244-161-11 RES-CHIP 2.2 5% R646 1-218-995-11 RES-CHIP 100K 5% 1/16W R623 1-244-161-11 RES-CHIP 2.2 5% R646 1-218-995-11 RES-	R358	1-220-804-11	RES-CHIP	2.2M	5%	1/16W	R514	1-218-973-11	RES-CHIP	47K	5%	1/16W
R419 1-218-965-11 RES-CHIP 10K 5% 1/16W R516 1-218-973-11 RES-CHIP 10K 5% 1/16W R518 1-218-973-11 RES-CHIP 10K 5% 1/16W R518 1-218-973-11 RES-CHIP 10K 5% 1/16W R518 1-218-973-11 RES-CHIP 10K 5% 1/16W R519 1-218-953-11 RES-CHIP 47K 5% 1/16W R520 1-218-949-11 RES-CHIP 47K 5% 1/16W R521 1-218-990-11 SHORT CHIP 0 1/16W R522 1-218-990-11 SHORT CHIP 0 1/16W R523 1-216-864-11 SHORT CHIP 0 1/16W R524 1-218-990-11 SHORT CHIP 0 1/16W R525 1-216-864-11 SHORT CHIP 0 1/16W R526 1-218-981-11 RES-CHIP 20K 5% R436 1-218-991-11 SES-CHIP 20K 5% R436 1-218-991-11 SES-CHIP 20K 5% R436 1-218-991-11 RES-CHIP 20K 5% R438 1-218-971-11 RES-CHIP 20K 5% 1/16W R600 1-218-993-11 RES-CHIP 20K 5% R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R601 1-218-931-11 RES-CHIP 10K 5% 1/16W R601 1-218-937-11 RES-CHIP 10K 5% 1/16W R601 1-218-937-11 RES-CHIP 10K 5% 1/16W R618 1-218-977-11 RES-CHIP 10K 5% 1/16W R618 1-218-977-11 RES-CHIP 10K 5% 1/16W R618 1-218-977-11 RES-CHIP 10K 5% 1/16W R621 1-218-935-11 RES-CHIP 10K 5% 1/16W R623 1-218-935-11 RES-CHIP 10K 5% 1/16W R	R359	1-218-990-11	SHORT CHIP	0			R515	1-218-965-11	RES-CHIP	10K	5%	1/16W
R420	R418	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R421 1-218-977-11 RES-CHIP 100K 5% 1/16W R519 1-218-963-11 RES-CHIP 47K 5% R422 1-218-989-11 RES-CHIP 1M 5% 1/16W R520 1-218-994-11 RES-CHIP 470 5% R424 1-218-985-11 RES-CHIP 20K 5% 1/16W R520 1-218-994-11 RES-CHIP 470 5% R424 1-218-985-11 RES-CHIP 20K 5% 1/16W R521 1-218-990-11 SHORT CHIP 0 R522 1-218-990-11 SHORT CHIP 0 R523 1-218-990-11 SHORT CHIP 0 R524 1-218-945-11 RES-CHIP 20K 5% R624 1-218-945-11 RES-CHIP 20K 5% R624 1-218-945-11 RES-CHIP 20K 5% R625 1-218-945-11 RES-CHIP 20K 5% R626 1-218-938-11 RES-CHIP 20K 5% R626 1-218-938-11 RES-CHIP 20K 5% R626 1-218-938-11 RES-CHIP 20K 5% R626 1-218-931-11 RES-CHIP 10K 5% 1/16W R626 1-218-931-11 RES-CHIP 10K 5% R627 1-218-935-11 RES-CHIP 10K 5% R628 1-2	R419	1-218-965-11	RES-CHIP	10K	5%	1/16W	R516	1-218-973-11	RES-CHIP	47K	5%	1/16W
R422 1-219-989-11 RES-CHIP 100K 5% 1/16W R520 1-218-949-11 RES-CHIP 100K 5% 1/16W R520 1-218-949-11 RES-CHIP 100K 5% 1/16W R520 1-218-949-11 RES-CHIP 0 0 0 0 0 0 0 0 0	R420	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R517	1-218-965-11	RES-CHIP	10K	5%	1/16W
R422 1-218-989-11 RES-CHIP 1M 5% 1/16W R423 1-218-981-11 RES-CHIP 20K 5% 1/16W R521 1-218-990-11 SHORT CHIP 0 R522 1-218-990-11 SHORT CHIP 0 R524 1-218-945-21 METAL CHIP 1 1% 1/5W R525 1-216-864-11 SHORT CHIP 0 R433 1-245-455-21 METAL CHIP 1M 5% 1/16W R525 1-216-864-11 SHORT CHIP 0 R435 1-218-990-11 SHORT CHIP 0 R541 T-218-981-11 RES-CHIP 220K 5% R653 1-218-981-11 RES-CHIP 220K 5% R654 1-218-981-11 RES-CHIP 220K 5% R654 1-218-981-11 RES-CHIP 220K 5% R655 1-218-981-11 RES-CHIP 220K 5% R654 1-218-997-11 RES-CHIP 100K 5% 1/16W R601 1-218-997-11 RES-CHIP 100K 5% 1/16W R603 1-218-977-11 RES-CHIP 100K 5% 1/16W R614 1-218-977-11 RES-CHIP 100K 5% 1/16W R614 1-218-977-11 RES-CHIP 100K 5% 1/16W R614 1-218-977-11 RES-CHIP 100K 5% 1/16W R615 1-218-991-11 RES-CHIP 100K 5% 1/16W R616 1-218-991-11 RES-CHIP 100K 5% 1/16W R616 1-218-997-11 RES-CHIP 100K 5% 1/16W R616 1-218-991-11 RES-CHIP 100K 5% 1/16W R617 1-218-991-11 RES-CHIP 100K 5% 1/16W R624 1-218-991-11 RES-CHIP 100K 5% 1/16W R624 1-218-991-11 RES-CHIP 2.2 5% 1/16W R633 1-244-161-11 RES-CHIP 2.2 5% 1/16W R646 1-218-991-11 RES-CHIP 2.2 5% 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W							R518	1-218-973-11	RES-CHIP	47K	5%	1/16W
R423	R421	1-218-977-11	RES-CHIP	100K	5%	1/16W	R519	1-218-953-11	RES-CHIP	1K	5%	1/16W
R423	R422	1-218-989-11	RES-CHIP	1M	5%	1/16W	R520	1-218-949-11	RES-CHIP	470	5%	1/16W
R425		1-218-981-11	RES-CHIP	220K	5%	1/16W						
R432 1-245-456-21 METAL CHIP 1 1% 1/5W R525 1-216-864-11 SHORT CHIP 0	R424	1-218-985-11	RES-CHIP	470K	5%	1/16W	R521	1-218-990-11	SHORT CHIP	0		
R432 1-245-456-21 METAL CHIP 1 1% 1/5W R525 1-216-864-11 SHORT CHIP 0 R433 1-245-455-21 RESCHIP 1M 5% 1/16W R626 1-216-864-11 SHORT CHIP 0 F856 1-218-981-11 RES-CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 220K 5% 1/16W R603 1-218-981-11 RES-CHIP 100K 5% 1/16W R608 1-218-987-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 1K <	R425	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R522	1-218-990-11	SHORT CHIP	0		
R433 1-245-45-21 METAL CHIP 0.47 1% 1/5W R526 1-216-864-11 SHORT CHIP 0 R436 1-218-991-11 RES-CHIP 0 R561 1-218-981-11 RES-CHIP 220K 5% R436 1-218-981-11 RES-CHIP 220K 5% R605 1-218-981-11 RES-CHIP 220K 5% R605 1-218-981-11 RES-CHIP 220K 5% R605 1-218-981-11 RES-CHIP 10 K 5% R608 1-218-446-11 METAL CHIP 1 5% R608 1-218-446-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% R609 1-218-977-11 RES-CHIP 100K 5% R609 R612 1-220-804-11 RES-CHIP 100K 5% R616 1-218-953-11 RES-CHIP 100K 5% R616 1-218-953-11 RES-CHIP 100K 5% R616 1-218-953-11 RES-CHIP 100K 5% R617 1-218-977-11 RES-CHIP 100K 5% R617 1-218-977-11 RES-CHIP 100K 5% R618 1-218-977-11 RES-CHIP 100K 5% R618 1-218-977-11 RES-CHIP 100K 5% R620 1-244-161-11 RES-CHIP 2.2 5% R645 1-218-985-11 RES-CHIP 2.2 5% R620 1-244-161-11 RES-CHIP 2.2 5% R620 1-218-935-11 RE							R524	1-218-945-11	RES-CHIP	220	5%	1/16W
R434 1-218-989-11 RES-CHIP 1M 5% 1/16W R561 1-218-981-11 RES-CHIP 20K 5% R435 1-218-991-11 RES-CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 220K 5% R437 1-218-981-11 RES-CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 1K 5% R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-963-11 RES-CHIP 100K 5% R441 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 10K 5% R444 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-228-953-11 RES-CHIP 1K 5% R444 1-218-997-11 RES-CHIP 100K 5% 1/16W R618 1-218-953-11 R	R432	1-245-456-21	METAL CHIP	1	1%	1/5W	R525	1-216-864-11	SHORT CHIP	0		
R434 1-218-989-11 RES-CHIP 1M 5% 1/16W R561 1-218-981-11 RES-CHIP 20K 5% R435 1-218-991-11 RES-CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 220K 5% R437 1-218-981-11 RES-CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 1K 5% R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-963-11 RES-CHIP 100K 5% R441 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 10K 5% R444 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-228-953-11 RES-CHIP 1K 5% R444 1-218-997-11 RES-CHIP 100K 5% 1/16W R618 1-218-953-11 R	R433	1-245-455-21	METAL CHIP	0.47	1%	1/5W	R526	1-216-864-11	SHORT CHIP	0		
R435 1-218-990-11 SHORT CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 220K 5% R436 1-218-981-11 RES-CHIP 220K 5% R605 1-218-983-11 RES-CHIP 10 5% R605 1-218-983-11 RES-CHIP 10 5% R605 1-218-977-11 RES-CHIP 10 5% R608 R609 1-218-977-11 RES-CHIP 10 5% R609 R609 1-218-977-11 RES-CHIP 10 5% R609 R618 1-218-953-11 RES-CHIP 10 5% R616 1-218-953-11 RES-CHIP 10 5% R617 1-218-953-11 RES-CHIP 10 5% R618 1-218-907-11 RES-CHIP 10 5% R619 1-218-957-11 RES-CHIP 10 5% R619 1-218-957-11 RES-CHIP 10 5% R629 1-244-161-11 RES-CHIP 2.2 5% R620 1-244-161-11 RES-CHIP 2.2 5% R621 1-244-161-11 RES-CHIP 2.2 5% R622 1-244-161-11 RES-CHIP 2.2 5% R622 1-244-161-11 RES-CHIP 2.2 5% R622 1-224-161-11 RES-CHIP 2.2 5% R628 1-218-933-11 RES-CHIP 2.2 5% R629 1-220-804-11 RES-CHIP 2.2 5% R629 1-218-939-11 RES-CHIP 2.2 5% R629 1-218-939-11 RES-CHIP 2.2 5% R629 1		1-218-989-11	RES-CHIP	1M	5%	1/16W						
R436 1-218-981-11 RES-CHIP 220K 5% 1/16W R601 1-218-981-11 RES-CHIP 1K 5% R437 1-218-981-11 RES-CHIP 220K 5% 1/16W R608 1-218-446-11 METAL CHIP 1 5% R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% 1/16W R619 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 10K 5% 1/16W R618 1-218-937-11 RES-CHIP 10K 5% 1/16W R616 1-218-937-11 RES-CHIP 10K 5% 1/16W R616 1-218-937-11 RES-CHIP 10K 5% 1/16W R618 1-218-937-11 RES-CHIP 10K 5% 1/16W R618 1-218-977-11 RES-CHIP 10K 5% 1/16W R618 1-218-977-11 RES-CHIP 10K 5% 1/16W R618 1-218-977-11 RES-CHIP 10K 5% R619 1-218-987-11 RES-CHIP 10K 5% R620 1-244-161-11 RES-CHIP 2.2 5% R620 1-218-985-11 RES-CHIP 2.2 5% R620 1		1-218-990-11	SHORT CHIP	0			R561	1-218-981-11	RES-CHIP	220K	5%	1/16W
R437 1-218-981-11 RES-CHIP 220K 5% 1/16W R608 1-218-953-11 RES-CHIP 1 5% R438 1-218-977-11 RES-CHIP 1 1 1 1 5% R608 1-218-461 RES-CHIP 1 1 1 5% R609 1-218-977-11 RES-CHIP 1 1 1 1 1 5% R609 1-218-977-11 RES-CHIP 1 1 1 1 1 1 1 1 1				220K	5%	1/16W				220K		1/16W
R437 1-218-981-11 RES-CHIP 220K 5% 1/16W R608 1-218-446-11 METAL CHIP 1 5% R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% 1/16W R441 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 1 1 5% R443 1-218-977-11 RES-CHIP 100K 5% 1/16W R616 1-218-953-11 RES-CHIP 1 1 1 5% R443 1-218-977-11 RES-CHIP 100K 5% 1/16W R616 1-218-953-11 RES-CHIP 1 1 1 5% R444 1-218-990-11 SHORT CHIP 0 R619 1-218-977-11 RES-CHIP 1 1 1 1 1 1 1 1 1							R605	1-218-953-11	RES-CHIP	1K	5%	1/16W
R438 1-218-977-11 RES-CHIP 100K 5% 1/16W R609 1-218-977-11 RES-CHIP 100K 5% 1/16W R442 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 1K 5% R443 1-218-977-11 RES-CHIP 100K 5% 1/16W R616 1-218-953-11 RES-CHIP 1K 5% R614 1-218-953-11 RES-CHIP 1K 5% R615 1-218-953-11 RES-CHIP 1K 5% R616 1-218-953-11 RES-CHIP 1K 5% R617 1-218-953-11 RES-CHIP 1K 5% R618 1-218-953-11 RES-CHIP 1K 5% R618 1-218-9577-11 RES-CHIP 10K 5% R618 1-218-977-11 RES-CHIP 10K 5% R618 1-218-977-11 RES-CHIP 100K 5% R624 1-218-987-11 RES-CHIP 100K 5% R624 1-218-987-11 RES-CHIP 10K 5% R624 1-218-985-11 RES-CHIP 10K 1	R437	1-218-981-11	RES-CHIP	220K	5%	1/16W	R608	1-218-446-11	METAL CHIP	1	5%	1/10W
R441 1-218-977-11 RES-CHIP 100K 5% 1/16W R612 1-220-804-11 RES-CHIP 2.2M 5% R443 1-218-977-11 RES-CHIP 100K 5% 1/16W R616 1-218-953-11 RES-CHIP 1K 5% R644 1-218-977-11 RES-CHIP 100K 5% 1/16W R616 1-218-953-11 RES-CHIP 1K 5% R444 1-218-990-11 SHORT CHIP 0 R618 1-218-977-11 RES-CHIP 100K 5% R446 1-218-990-11 SHORT CHIP 0 R619 1-218-977-11 RES-CHIP 100K 5% R455 1-218-989-11 RES-CHIP 1M 5% 1/16W R620 1-244-161-11 RES-CHIP 2.2 5% R455 1-218-989-11 RES-CHIP 1M 5% 1/16W R621 1-244-161-11 RES-CHIP 2.2 5% R456 1-218-985-11 RES-CHIP 20K 5% 1/16W R621 1-244-161-11 RES-CHIP 2.2 5% R456 1-218-985-11 RES-CHIP 20K 5% 1/16W R623 1-244-161-11 RES-CHIP 2.2 5% R463 1-218-981-11 RES-CHIP 20K 5% 1/16W R624 1-218-985-11 RES-CHIP 2.2 5% R466 1-228-985-11 RES-CHIP 20K 5% 1/16W R624 1-218-985-11 RES-CHIP 2.2 5% R626 1-218-985-11 RES-CHIP 2.2 5% R626 1-218-985-11 RES-CHIP 2.2 5% R626 1-218-985-11 RES-CHIP 2.2 5% R627 1-218-985-11 RES-CHIP 2.2 5% R628 1-218-985-11 RES-CHIP 2.2 5% R629 1-228-984-11 RES-CHIP 2.2 5% R647 1-218-990-11 SHORT CHIP 0 R636 1-218-985-11 RES-CHIP 2.2 5% R647 1-218-990-11 SHORT CHIP 0 R641 1-218-989-11 RES-CHIP 10K 5% R641 1-2				100K		1/16W	R609	1-218-977-11	RES-CHIP	100K	5%	1/16W
R443 1-218-977-11 RES-CHIP 100K 5% 1/16W R616 1-218-953-11 RES-CHIP 1K 5% R444 1-218-977-11 RES-CHIP 100K 5% 1/16W R618 1-218-953-11 RES-CHIP 10K 5% R446 1-218-990-11 SHORT CHIP 0 R619 1-218-977-11 RES-CHIP 100K 5% R447 1-218-990-11 SHORT CHIP 0 R620 1-218-977-11 RES-CHIP 100K 5% R455 1-218-989-11 RES-CHIP 1M 5% 1/16W R621 1-244-161-11 RES-CHIP 2.2 5% R456 1-218-985-11 RES-CHIP 2.0 5% 1/16W R621 1-244-161-11 RES-CHIP 2.2 5% R462 1-218-981-11 RES-CHIP 2.0 5% 1/16W R623 1-244-161-11 RES-CHIP 2.2 5% R462 1-218-981-11 RES-CHIP 2.0 5% 1/16W R624 1-218-985-11 RES-CHIP 2.2 5% R464 1-208-935-11 METAL CHIP 100K 0.5% 1/16W R624 1-218-985-11 RES-CHIP 470K 5% R464 1-220-804-11 RES-CHIP 2.2M 5% 1/16W R628 1-218-933-11 RES-CHIP 2.2 5% R629 1-220-804-11 RES-CHIP 2.2 5% R636 1-218-990-11 SHORT CHIP 0 R636 1-218-990-11 SHORT CHIP 0 R636 1-218-990-11 RES-CHIP 2.2 5% R641 1-218-990-11 SHORT CHIP 0 R641 1-218-990-11 RES-CHIP 1M 5% R648 1-218-990-11 RES-CHIP 1M 5% R648 1-218-990-11 RES-CHIP 1M 5% R648 1-218-990-11 RES-CHIP 4.7K 0.5% 1/16W R645 1-218-990-11 RES-CHIP 100K 5% 1/16W R645 1-218-990-11 RES-CHIP 4.7K 5%		1-218-977-11	RES-CHIP	100K		1/16W						
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R446	R444	1-218-977-11	RES-CHIP	100K	5%	1/16W						1/16W
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R471 1-218-990-11 SHORT CHIP 0 R636 1-218-985-11 RES-CHIP 470K 5% R472 1-218-990-11 SHORT CHIP 0 R638 1-218-981-11 RES-CHIP 220K 5% R473 1-218-990-11 SHORT CHIP 0 R638 1-218-981-11 RES-CHIP 220K 5% R474 1-218-953-11 RES-CHIP 1K 5% 1/16W R639 1-218-989-11 RES-CHIP 1M 5% R475 1-218-990-11 SHORT CHIP 0 R641 1-218-981-11 RES-CHIP 1M 5% R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R480 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R645 1-218-985-11 RES-CHIP 47	R467	1-218-965-11	RES-CHIP	10K	5%	1/16W					0 / 0	.,
R472 1-218-990-11 SHORT CHIP 0 R473 1-218-990-11 SHORT CHIP 0 R474 1-218-953-11 RES-CHIP 1K 5% 1/16W R638 1-218-981-11 RES-CHIP 220K 5% R475 1-218-990-11 SHORT CHIP 0 R640 1-218-981-11 RES-CHIP 220K 5% R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-989-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R478 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R643 1-218-990-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%					0 /0	1/1011					5%	1/16W
R473 1-218-990-11 SHORT CHIP 0 R638 1-218-981-11 RES-CHIP 220K 5% R474 1-218-953-11 RES-CHIP 1K 5% 1/16W R639 1-218-989-11 RES-CHIP 1M 5% R475 1-218-990-11 SHORT CHIP 0 R640 1-218-989-11 RES-CHIP 220K 5% R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-989-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R478 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R643 1-218-990-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%							11000	. 210 000 11	01111	77 010	U /0	.,
R474 1-218-953-11 RES-CHIP 1K 5% 1/16W R639 1-218-989-11 RES-CHIP 1M 5% R475 1-218-990-11 SHORT CHIP 0 R640 1-218-989-11 RES-CHIP 1M 5% R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-989-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R478 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R643 1-218-990-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%							B638	1-218-981-11	RES-CHIP	220K	5%	1/16W
R475 1-218-990-11 SHORT CHIP 0 R641 1-218-989-11 RES-CHIP 220K 5% R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R643 1-218-977-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%					5%	1/16W/						1/16W
R475 1-218-990-11 SHORT CHIP 0 R641 1-218-989-11 RES-CHIP 1M 5% R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R480 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R643 1-218-990-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%	11171	1 210 000 11	TIEG OTTI	111	0 /0	17 1000						1/16W
R476 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R642 1-218-977-11 RES-CHIP 100K 5% R478 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R643 1-218-990-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%	R475	1-218-000-11	SHORT CHIP	Λ								1/16W
R477 1-208-699-11 METAL CHIP 4.7K 0.5% 1/16W R478 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R483 1-218-985-11 RES-CHIP 470K 5% R646 1-218-989-11 RES-CHIP 47K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%					0.5%	1/16\//						1/16W
R478 1-218-961-11 RES-CHIP 4.7K 5% 1/16W R643 1-218-990-11 SHORT CHIP 0 R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R646 1-218-973-11 RES-CHIP 47K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%							11042	1 210-311-11	TIEU OTHE	TOOK	J /0	1/1000
R480 1-218-977-11 RES-CHIP 100K 5% 1/16W R645 1-218-985-11 RES-CHIP 470K 5% R646 1-218-973-11 RES-CHIP 47K 5% R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%							B843	1-212-000-11	СНОВТ СПІВ	Λ		
R646 1-218-973-11 RES-CHIP 47K 5% R483 1-218-985-11 RES-CHIP 47K 5% R647 1-218-989-11 RES-CHIP 1M 5%											50/-	1/16W
R483 1-218-985-11 RES-CHIP 470K 5% 1/16W R647 1-218-989-11 RES-CHIP 1M 5%	11400	1-210-311-11	NEO-OHIF	TOUR	J /0	1/1000						1/16W
	D/100	1_010_005 11	BEC"UND	/170V	E0/.	1/16\//						1/16W
11404 1-210-301-11 NES-OHIF 220N 370 1/10W 1 N040 1-240-430-21 WEIAE OHIF I 170												1/16W
	11404	1-410-301-11	NEOTOTIF	ZZUN	J /0	1/ 1044	11040	1-2 1 0-400-21	WIL IAL UNIT	1	1 /0	1/344

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark
						R826	1-218-990-11	SHORT CHIP	0		
R649	1-245-456-21	METAL CHIP	1	1%	1/5W	R827	1-218-941-11	RES-CHIP	100	5%	1/16W
R650	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R829	1-218-990-11	SHORT CHIP	0 (NHF800))	
R652	1-218-990-11	SHORT CHIP	0								
R653	1-218-969-11	RES-CHIP	22K	5%	1/16W	R830	1-218-990-11	SHORT CHIP	0		
R654	1-218-989-11	RES-CHIP	1M	5%	1/16W	R832	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R833	1-218-990-11	SHORT CHIP	0		
R657	1-218-990-11	SHORT CHIP	0			R837	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R659	1-218-977-11	RES-CHIP	100K	5%	1/16W	R839	1-218-990-11	SHORT CHIP	0		
R660	1-218-985-11	RES-CHIP	470K	5%	1/16W						
R661	1-218-985-11	RES-CHIP	470K	5%	1/16W	R840	1-218-990-11	SHORT CHIP	0		
R662	1-218-985-11	RES-CHIP	470K	5%	1/16W	R841	1-218-929-11	RES-CHIP	10	5%	1/16W
						R842	1-218-973-11	RES-CHIP	47K	5%	1/16W
R663	1-218-981-11	RES-CHIP	220K	5%	1/16W	R843	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R664	1-216-789-11	METAL CHIP	2.2	5%	1/10W	R845	1-216-864-11	SHORT CHIP	0		
R665	1-218-990-11	SHORT CHIP	0								
R668	1-216-864-11	SHORT CHIP	0			R855	1-218-990-11		0		
R670	1-218-990-11	SHORT CHIP	0			R856	1-218-990-11	SHORT CHIP	0		
						R857	1-218-985-11	RES-CHIP	470K	5%	1/16W
R671	1-218-990-11	SHORT CHIP	0			R858	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R673	1-218-990-11	SHORT CHIP	0			R860	1-218-929-11	RES-CHIP	10	5%	1/16W
R675	1-220-804-11	RES-CHIP	2.2M	5%	1/16W						
R677	1-216-864-11	SHORT CHIP	0			R861	1-218-933-11		22	5%	1/16W
R678	1-218-990-11	SHORT CHIP	0			R862	1-218-989-11		1M	5%	1/16W
						R863	1-218-990-11	SHORT CHIP	0		
R679	1-218-945-11	RES-CHIP	220	5%	1/16W	R864	1-218-945-11	RES-CHIP	220	5%	1/16W
R680	1-216-864-11	SHORT CHIP	0			R865	1-218-985-11	RES-CHIP	470K	5%	1/16W
R681	1-218-989-11	RES-CHIP	1M	5%	1/16W						
R682	1-218-989-11	RES-CHIP	1M	5%	1/16W	R866	1-218-990-11	SHORT CHIP	0		
R683	1-218-989-11	RES-CHIP	1M	5%	1/16W	R867	1-218-989-11	RES-CHIP	1M	5%	1/16W
						R868	1-218-990-11	SHORT CHIP	0		
R684	1-218-965-11	RES-CHIP	10K	5%	1/16W	R869	1-218-990-11	SHORT CHIP	0		
R685	1-218-965-11	RES-CHIP	10K	5%	1/16W	R872	1-218-965-11	RES-CHIP	10K	5%	1/16W
R706	1-218-957-11	RES-CHIP	2.2K	5%	1/16W						
R707	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R873	1-218-965-11	RES-CHIP	10K	5%	1/16W
R708	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R876	1-218-990-11	SHORT CHIP	0		
						R878	1-218-937-11	RES-CHIP	47	5%	1/16W
R709	1-218-965-11	RES-CHIP	10K	5%	1/16W	R879	1-218-937-11	RES-CHIP	47	5%	1/16W
R710	1-218-965-11	RES-CHIP	10K	5%	1/16W	R880	1-218-937-11	RES-CHIP	47	5%	1/16W
R711	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R712	1-218-990-11	SHORT CHIP	0			R881	1-218-981-11	RES-CHIP	220K	5%	1/16W
R713	1-218-953-11	RES-CHIP	1K	5%	1/16W	R882	1-218-985-11		470K	5%	1/16W
						R883	1-218-989-11		1M	5%	1/16W
R801	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R884	1-218-985-11	RES-CHIP	470K	5%	1/16W
R802	1-218-990-11		0			R885	1-218-989-11	RES-CHIP	1M	5%	1/16W
R804	1-218-933-11	RES-CHIP	22	5%	1/16W						
R805	1-218-933-11	RES-CHIP	22	5%	1/16W	R886	1-218-977-11		100K	5%	1/16W
R806	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R887	1-218-977-11		100K	5%	1/16W
						R888	1-218-981-11		220K	5%	1/16W
R807	1-218-957-11		2.2K	5%	1/16W	R889	1-218-973-11		47K	5%	1/16W
R808	1-218-961-11		4.7K	5%	1/16W	R890	1-218-981-11	RES-CHIP	220K	5%	1/16W
R809	1-218-990-11		0								
R810	1-218-990-11		0			R891	1-218-990-11		0		
R811	1-218-965-11	RES-CHIP	10K	5%	1/16W	R892	1-218-981-11		220K	5%	1/16W
						R893	1-220-804-11		2.2M	5%	1/16W
R812	1-218-977-11		100K	5%	1/16W	R894	1-218-977-11		100K	5%	1/16W
R813	1-218-945-11		220	5%	1/16W	R895	1-218-977-11	RES-CHIP	100K	5%	1/16W
R815	1-218-981-11		220K	5%	1/16W						
R817	1-218-953-11		1K	5%	1/16W	R897	1-218-990-11		0		
R818	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R903	1-218-989-11		1M	5%	1/16W
						R904	1-218-989-11		1M	5%	1/16W
R819	1-218-953-11		1K	5%	1/16W	R906	1-218-973-11		47K	5%	1/16W
R820	1-218-945-11		220	5%	1/16W	R907	1-218-965-11	RES-CHIP	10K	5%	1/16W
R821	1-220-804-11		2.2M	5%	1/16W						
R822	1-218-989-11		1M	5%	1/16W	R908	1-218-969-11		22K	5%	1/16W
R823	1-218-965-11	RES-CHIP	10K	5%	1/16W	R910	1-218-969-11		22K	5%	1/16W
						R912	1-218-981-11		220K	5%	1/16W
R824	1-218-990-11		0			R914	1-208-911-11		10K	0.5%	1/16W
R825	1-218-990-11	SHORT CHIP	0			R917	1-218-981-11	KES-CHIP	220K	5%	1/16W

MAIN

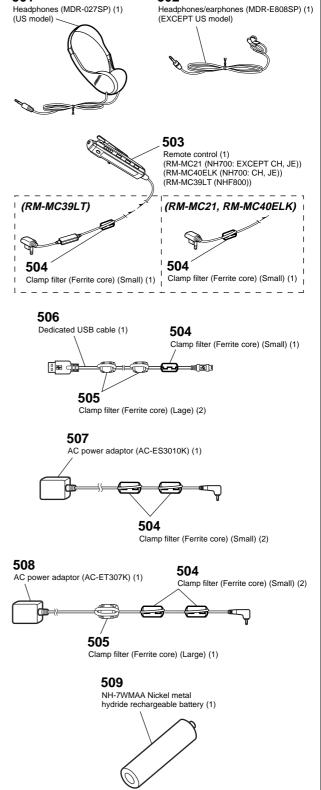
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	<u>Remark</u>
1161. INO.	<u>i ait ivo.</u>	<u>Description</u>			Hemark	1161. 140.	<u>raitivo.</u>	ACCESSORIES	Hemark
R918 R920 R922 R924	1-218-985-11 1-218-985-11 1-218-977-11 1-218-985-11	RES-CHIP	470K 470K 100K 470K	5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W			********** FILTER, CLAMP (FERRITE CORE (for Optional Ster	reo Microphone)
R925	1-208-927-11	METAL CHIP	47K	0.5%	1/16W		1-543-798-31	FILTER, CLAMP (FERRITE CORE) onal Line Cable)
R926 R927 R929 R930	1-208-935-11 1-208-683-11 1-208-935-11 1-208-927-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	100K 1K 100K 47K	0.5% 0.5% 0.5% 0.5%	1/16W 1/16W 1/16W 1/16W	A		ADAPTOR, CONVERSION 2P (NECONNECTOR, LIGHT (NH700: AEP, UK, E18 NHF800: AEP, UK	1700: JE) 8, E91, EE, AUS/
R931	1-218-990-11		0	0.5 /0	17 10 00		1-816-206-21	CONNECTOR, LIGHT (NH700: H	
R933	1-208-943-11	METAL CHIP	220K	0.5%	1/16W		0 000 740 04	OACE OADDVING /EVOEDT NUIE	,
R934 R935	1-208-715-11 1-208-935-11	METAL CHIP METAL CHIP	22K 100K	0.5% 0.5%	1/16W 1/16W			CASE, CARRYING (EXCEPT NHF) CASE, BATTERY CARRYING	300: 05)
R936	1-208-927-11	METAL CHIP	47K	0.5%	1/16W			(EXCEI	PT NHF800: US)
R937 R938	1-208-715-11 1-208-927-11	METAL CHIP	22K 47K	0.5%	1/16W 1/16W			MANUAL, INSTRUCTION (CZECH MANUAL, INSTRUCTION (HUNG	ÁRIAN)
R951 R952	1-218-990-11 1-218-990-11	SHORT CHIP	0 0	0.5%	1/1000		3-266-457-31	MANUAL, INSTRUCTION (POLIS	(NH700: EE) SH) (NH700: EE)
R953 R954	1-220-803-81 1-218-985-11		4.7 470K	5% 5%	1/16W 1/16W		3-266-457-41	MANUAL, INSTRUCTION (SLOVA	AKIAN) (NH700: EE)
R955	1-218-957-11	RES-CHIP	2.2K	5%	1/16W		3-266-457-51	MANUAL, INSTRUCTION (RUSS	IAN) (NH700: EE)
R958 R959	1-218-973-11 1-218-985-11	RES-CHIP	47K 47K 470K	5% 5% 5%	1/16W 1/16W		3-266-457-61	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (N	,
R960	1-218-990-11	SHORT CHIP	0				3-266-457-71	MANUAL, INSTRUCTION (ENGLI	ISH)
R964	1-218-977-11	RES-CHIP < SWITCH >	100K	5%	1/16W		3-266-457-81	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) ((NH700: CH, JE) (NH700: CH, JE)
S892		SWITCH, PUSH (3-266-457-91	MANUAL, INSTRUCTION (KORE	
S893 S894	1-762-805-21 1-786-703-21	SWITCH, PUSH (2 KEY)		,		3-266-469-11	MANUAL, INSTRUCTION (ENGLI	
		(PROTECT DET			I DETECT)		3-266-469-21	(NH700: CND, AEP, UK, E1 MANUAL, INSTRUCTION (FRENC	CH)
THP401	1-805-580-11	THERMISTOR, P	,	>			3-266-469-31	MANUAL, INSTRUCTION (GERM	1700: CND, AEP) IAN) (NH700: AEP)
1111 401	1 000 000 11	< VARISTOR >	OOTTIVE				3-266-469-41	MANUAL, INSTRUCTION (SPANI (NH700	ISH)
VDR801	1-805-697-21	VARISTOR (SMD)				3-266-469-51	MANUAL, INSTRUCTION (DUTC	
		< VIBRATOR >	,				3-266-469-61	MANUAL, INSTRUCTION (SWED	(NH700: AEP) DISH)
X801	1-813-353-21	VIBRATOR, CERA	MIC (48MF	[7)			3-266-469-71	MANUAL, INSTRUCTION (ITALIA	(NH700: AEP)
X802	1-813-314-11	VIBRATOR, CRYS	STAL (22.57	92MHz)	*****		3-266-469-81	,	(NH700: AEP)
		MISCELLANEOUS	S				3-266-469-91	,	(NH700: AEP)
		*******						,	(NH700: AEP)
60 163	1-805-514-11 X-2021-785-1	LCD MODULE OP SERVICE ASS	SY (ABX-U)				3-266-529-11	MANUAL, INSTRUCTION (ENGLI	ISH) (NHF800: CND)
M701	8-835-782-12	(including MOTOR, DC SSM	HR601 (Ó\ 18D/C-NP		, ,		3-266-529-21	MANUAL, INSTRUCTION (FRENC	CH) (NHF800: CND)
M702 M703	1-787-143-11	MOTOR, DC (SLE MOTOR UNIT, DC	ED)	, 	,		3-266-529-31	MANUAL, INSTRUCTION (ENGLI (NHF800: AEP, UK, E1	ISH)
******	*****	(********	OVER WRIT		,		3-266-529-41	MANUAL, INSTRUCTION (FRENC	CH) (NHF800: AEP)
							3-266-529-51	MANUAL, INSTRUCTION (GERM	'
							3-266-529-61	MANUAL, INSTRUCTION (SPANI	ISH) (NHF800: AEP)

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
	3-266-529-71	MANUAL, INSTRUCTION (DUT	,
	3-266-529-81	MANUAL, INSTRUCTION (SWI	(NHF800: AEP) EDISH) (NHF800: AEP)
	3-266-529-91	MANUAL, INSTRUCTION (ITAL	,
	3-266-571-11	MANUAL, INSTRUCTION (POF	,
	3-266-571-21	MANUAL, INSTRUCTION (FINI	NISH) (NHF800: AEP)
	3-266-571-31 3-266-571-41	MANUAL, INSTRUCTION (CZE MANUAL, INSTRUCTION (HUM	CH) (NHF800: EE)
	3-266-571-51	MANUAL, INSTRUCTION (POL	.ISH) `
	3-266-571-61	MANUAL, INSTRUCTION (SLO	(NHF800: EE) IVAKIAN) (NHF800: EE)
	3-266-571-71	MANUAL, INSTRUCTION (RUS	SSIAN) (NHF800: EE)
	3-266-571-81	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (, ,
	3-266-571-91	MANUAL, INSTRUCTION (ENG	
	X-2022-247-4	CD-ROM (APPLICATION) ASS	,
	X-2022-248-3	CD-ROM (APPLICATION) ASS' (NH700: AEP, UK, EE/NHF	Υ ΄
	X-2023-448-1		Y HK, KR, AUS, CH/ 00: E15, HK, AUS)
	X-2023-449-1	CD-ROM (APPLICATION) ASS'	,
501	X-2023-450-1 8-954-007-91	CD-ROM (APPLICATION) ASS' RECEIVER, EAR MDR-027SP/1	Y (NH700: JE) 1 SET
502	8-954-008-90	RECEIVER, EAR MDR-E808SP (EXC	(NHF800: US) /C SET CEPT NHF800: US)
503	1-477-548-13	REMOTE CONTROL UNIT (RM	-MC21) D: EXCEPT CH, JE)
503	1-478-468-21	REMOTE COMMANDER (RM-M	
503	A-3172-189-A	REMOTE CONTROL UNIT (RM	' '
503	A-3172-190-A	REMOTE CONTROL UNIT (RM	
503	A-3172-191-A	REMOTE CONTROL UNIT (RM (NHF	'
503	A-3172-192-A	REMOTE CONTROL UNIT (RM	-MC39LT) 00: E15, HK, AUS)
504 505	1-543-793-41 1-543-798-31	FILTER, CLAMP (FERRITE COF FILTER, CLAMP (FERRITE COF	RE)
506	1-823-519-61	CORD, CONNECTION (DEDICA	
1 507	1-477-965-21	ADAPTOR, AC (AC-ES3010K)	
 ∆ 507	1-478-423-21	ADAPTOR, AC (AC-ES3010K)	
1 507 1 507	1-478-424-21	ADAPTOR, AC (AC-ES3010K)	(NH700: CH)
1 507	1-478-425-41	ADAPTOR, AC (AC-ES3010K) (NH700: A	AEP, EE, E18, E91)
1 507 1 507 1 507	1-478-426-51 1-478-427-31	ADAPTOR, AC (AC-ES3010K) (ADAPTOR, AC (AC-ES3010K) ((NH700: UK, HK)
 ∆ 507	1-478-428-21	ADAPTOR, AC (AC-ES3010K)	` '
1 508 1 508 1 508	1-478-371-11 1-478-372-11	ADAPTOR, AC (AC-ET307K) (N ADAPTOR, AC (AC-ET307K) (N	

I	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
	1 508 1 508 1 508	1-478-373-11 1-478-374-11	ADAPTOR, AC (AC-ET307K) (NHF800: ADAPTOR, AC (AC-ET307K) (NHF800:	. ,
	1 508 509	1-478-377-11 1-756-317-22	ADAPTOR, AC (AC-ET307K) (NHF800: BATTERY, NICKEL HYDROGEN (NH-7V (EXCEPT NH700: CND/NHF800:	VMAA)
	501 Headpho (US mod	ones (MDR-027SP) del)	(1) 502 Headphones/earphones (MDR-E8 (EXCEPT US model)	i08SP) (1)



Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004.07	New
1.1	2004.09	Change of all contents Test Mode and Electrical Adjustments Change of Part No. for IC801, R312, R860 on the MAIN board and
		AC Adaptor
		Addition of "Position of Ferrite Core" in the Disassembly
		(ECN-ECA12671/ECA30140/ECA37792/ECA40256)